

**Phytoplankton, temperature
and salinity data from
northeastern Ungava Bay**

Nadia Pinkewycz, F.J. Fife and S.I.C. Hsiao

Arctic Biological Station
Department of Fisheries and Oceans
Ste-Anne-de-Bellevue, Québec, H9X 3R4

March 1987

**Canadian Data Report of
Fisheries and Aquatic Sciences
No. 644**

Canada

Canadian Data Report of Fisheries and Aquatic Sciences

Data reports provide a medium for filing and archiving data compilations where little or no analysis is included. Such compilations commonly will have been prepared in support of other journal publications or reports. The subject matter of data reports reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries and aquatic sciences.

Data reports are not intended for general distribution and the contents must not be referred to in other publications without prior written authorization from the issuing establishment. The correct citation appears above the abstract of each report. Data reports are abstracted in *Aquatic Sciences and Fisheries Abstracts* and indexed in the Department's annual index to scientific and technical publications.

Numbers 1-25 in this series were issued as Fisheries and Marine Service Data Records. Numbers 26-160 were issued as Department of Fisheries and the Environment, Fisheries and Marine Service Data Reports. The current series name was introduced with the publication of report number 161.

Data reports are produced regionally but are numbered nationally. Requests for individual reports will be filled by the issuing establishment listed on the front cover and title page. Out-of-stock reports will be supplied for a fee by commercial agents.

Rapport statistique canadien des sciences halieutiques et aquatiques

Les rapports statistiques servent à classer et à archiver les compilations de données pour lesquelles il y a peu ou point d'analyse. Ces compilations auront d'ordinaire été préparées à l'appui d'autres publications ou rapports. Les sujets des rapports statistiques reflètent la vaste gamme des intérêts et des politiques du ministère des Pêches et des Océans, c'est-à-dire les sciences halieutiques et aquatiques.

Les rapports statistiques ne sont pas destinés à une vaste distribution et leur contenu ne doit pas être mentionné dans une publication sans autorisation écrite préalable de l'établissement auteur. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports statistiques sont résumés dans la revue *Résumés des sciences aquatiques et halieutiques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les numéros 1 à 25 de cette série ont été publiés à titre de relevés statistiques, Services des pêches et de la mer. Les numéros 26 à 160 ont été publiés à titre de rapports statistiques du Service des pêches et de la mer, ministère des Pêches et de l'Environnement. Le nom actuel de la série a été établi lors de la parution du numéro 161.

Les rapports statistiques sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Canadian Data Report of
Fisheries and Aquatic Sciences 644

March 1987

**PHYTOPLANKTON, TEMPERATURE AND SALINITY DATA
FROM NORTHEASTERN UNGAVA BAY**

by

Nadia Pinkewycz, F.J. Fife and Stephen I.C. Hsiao

Arctic Biological Station
Department of Fisheries and Oceans
555 St. Pierre Blvd.
Ste-Anne-de-Bellevue, Québec H9X 3R4

(C) Minister of Supply and Services Canada 1987

Cat No. Fs97-13/0644

ISSN 0706-6465

Correct citation for this publication:

Pinkewycz, Nadia, F.J. Fife and Stephen I.C. Hsiao. 1987. Phytoplankton temperature and salinity data from northeastern Ungava Bay. Can. Data Rep. Fish. Aquat. Sci. 644 : iv + 67 p.

CONTENTS

Abstract/Résumé	iv
Introduction	1
Materials and Methods	1
Acknowledgements	3
References	3
Table 1 Phytoplankton taxa from northeastern Ungava Bay	4
Table 2-19 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay	8
Table 20 Supplemental station data	67

ABSTRACT

Pinkewycz, Nadia, F.J. Fife and Stephen I.C. Hsiao. 1987. Phytoplankton, temperature and salinity data from northeastern Ungava Bay. Can. Data Rep. Fish. Aquat. Sci. 644: iv + 67 p.

Phytoplankton data from collections during late summer and early fall of 1984 and 1985 in northeastern Ungava Bay are tabulated. Fifty-four genera and 102 species were identified. The diatoms were the largest group in terms of the number of cells and species. Among them, centric diatoms had fewer species but a greater abundance of cells than the pennate diatoms. Chlorophytes, chrysophytes, blue-green algae, euglenoids and dinoflagellates occurred in lower numbers in terms of both cells and species.

Seawater temperature ranged from 0.2°C in deeper water to 3.2°C near the surface, with most values lying between 1.5°C and 2.0°C. Salinity remained consistently between 30‰ and 32‰ except at Station 7.

Keywords: Phytoplankton, species composition, vertical distribution, abundance, temperature, salinity

RÉSUMÉ

Pinkewycz, Nadia, F.J. Fife and Stephen I.C. Hsiao. 1987. Phytoplankton, temperature and salinity data from northeastern Ungava Bay. Can. Data Rep. Fish. Aquat. Sci. 644: iv + 67 p.

Les données de phytoplancton recueillies à la fin de l'été et au début de l'automne en 1984 et en 1985 au nord-est de la baie d'Ungava ont été compilées. On a identifié cinquante-quatre genres et cent deux espèces. Les diatomées représentaient le groupe le plus abondant et le plus diversifié. Les diatomées centriques étaient moins diversifiées mais plus abondantes que les diatomées pennées. Les chlorophytes, les chrysophytes, les cyanophytes, les euglénoïdes et les dinoflagellés étaient encore moins nombreux et moins diversifiés.

La température de l'eau de mer variait entre 0.2°C en eau profonde et 3.2°C près de la surface, la plupart des relevés se situant entre 1.5° et 2.0°C. La salinité était constante à 30-32‰ sauf à la station 7.

Mots clés: Phytoplankton, composition d'espèces, distribution verticales, abondance, température, salinité

INTRODUCTION

Recently Canadian Offshore areas have been opened to exploration for oil, gas and minerals. It is important that there be a better understanding of primary productivity and of the trophic relationships between the phytoplankton and dependent higher forms in the surrounding waters prior to extensive resource development. Phytoplankton species are often used as indicators of environmental changes resulting from resource development activities. This study examines the species composition, abundance, and vertical distribution of phytoplankton and the influence of regional or environmental conditions.

MATERIALS AND METHODS

During the late summer and early fall of 1984 and 1985 collections of phytoplankton were made in Fox Harbour, Munro Harbour and Port Burwell located in northeastern Ungava Bay (Fig. 1). Standard collection procedures were used to obtain samples from depths of 0, 1, 3, 5, 7, 10, 20, 30, 40 and 50 m. Samples of 100 mL were preserved with 2 mL of 40% formaldehyde solution buffered with 5% sodium B-glycerophosphate in Boston round polyethylene bottles. The preserved phytoplankton were quantitatively and qualitatively analyzed for species composition and abundance. The species were identified with the aid of a Leitz phase-contrast compound microscope. The cells were enumerated by the method of Hsiao (1979) with the aid of a Leitz inverted microscope.

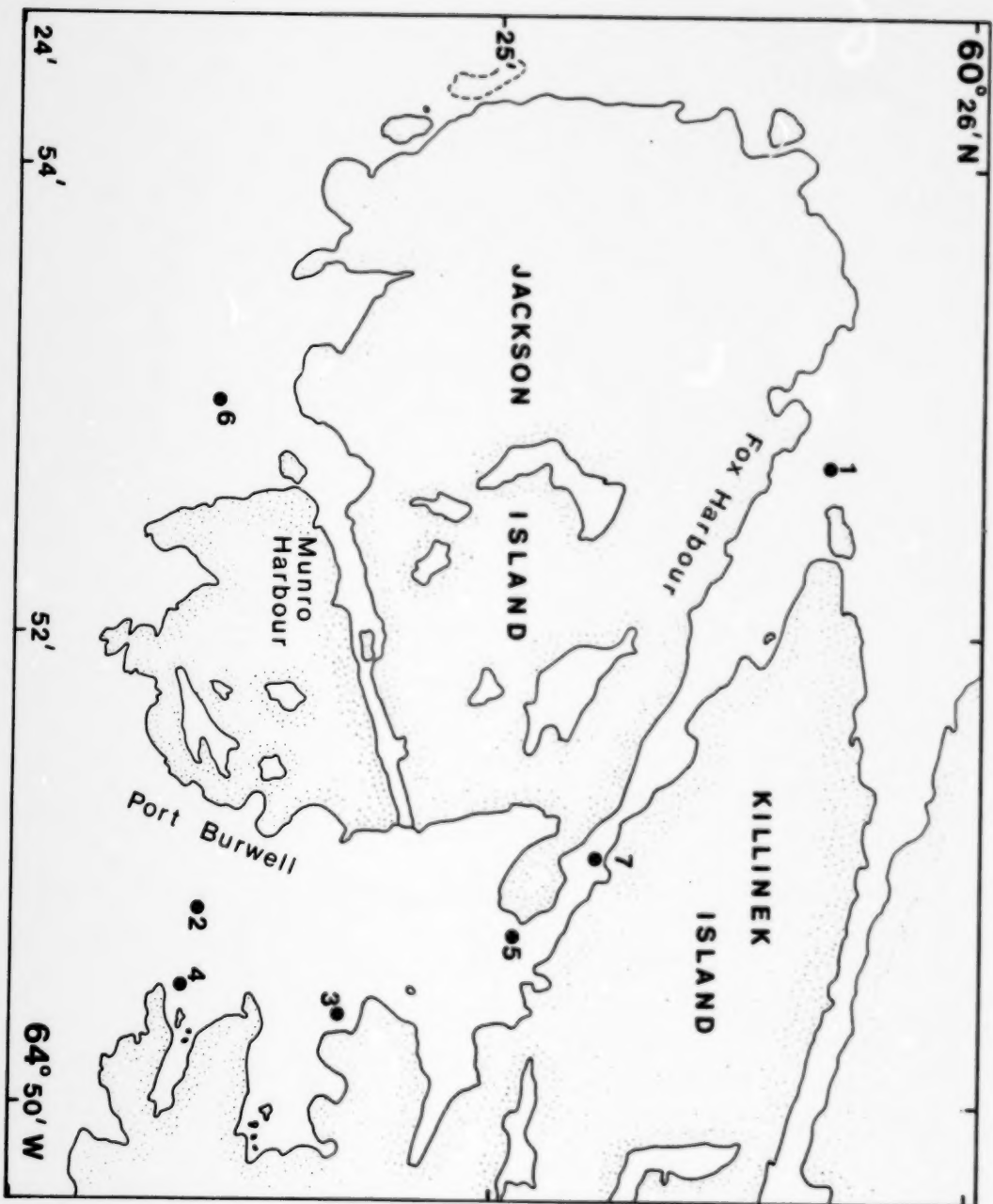


Fig. 1 Station locations in northeastern Ungava Bay.

Seawater temperature was measured with an immersion thermometer in the water sampler immediately upon collection. Salinity was determined with a Guildline Autosol model 8400A (Smith Falls, Ontario).

ACKNOWLEDGEMENTS

We thank the Canadian Coast Guard for continued logistic support during two years of field work. We also thank members of the Killiniq Fisheries Project and Makivik Corporation. S. Leach, B. and D. Unatweenuk, M. Assevak, and B. Blais took part in data and sample collecting. C. Valentine and P. Peltola of Oceanography at McGill aided in salinity determinations. Funding was provided by the Quebec Fisheries Development Program.

REFERENCES

- Hsiao, S.I.C. 1979. Phytoplankton and sea ice microalgal data from Frobisher Bay, 1971 to 1978. Fisheries and Environment Canada, Fish. Mar. Serv. Data Rep. 155: 82 p.

Table 1. Phytoplankton taxa from northeastern Ungava Bay

Bacillariophyta

Centrales

Biddulphia S.F. Gray
B. aurita (Lyngbye) Brébisson et Godey
Chaetoceros Ehrenberg
C. affinis Lauder
C. atlanticus Cleve
C. borealis J.W. Bailey
C. compressus Lauder
C. debilis Cleve
C. decipiens Cleve
C. diadema (Ehrenberg) Gran
C. furcellatus J.W. Bailey
C. septentrionalis Oestrup
C. wighami Brightwell
Coscinodiscus Ehrenberg
C. centralis Ehrenberg
C. lacustris var. septentrionalis (Grunow) Rattray
Cyclotella Kützing
Eucampia Ehrenberg
E. groenlandica Cleve
Leptocylindrus danicus Cleve
Melosira Agardh
M. arctica (Ehrenberg) Dickie
Rhizosolenia Ehrenberg
Thalassiosira Cleve
T. bioculata var. exigua (Grunow) Hustedt
T. decipiens (Grunow) Joergensen
T. gravis Cleve
T. hyalina (Grunow) Gran
T. nordenskiöldii Cleve

Pennales

Achnanthes taeniata Grunow
Amphiprora Ehrenberg
Amphora Ehrenberg
A. kjellmanii var. kariana (Grunow) Cleve
Amphora Ehrenberg
A. inelegans Cleve et Grove

Table 1. (cont'd)

A. terroris Ehrenberg
Asterionella formosa Hassall
Cocconeis Ehrenberg
C. groenlandica Ehrenberg
C. scutellum Ehrenberg
C. scutellum var. parva (Grunow) Cleve
C. thumensis Mayer
Cylindrotheca closterium (Ehrenberg) Reimann et Lewin
Cymbella Agardh
C. affinis Kützing
Diploneis Ehrenberg
D. didyma (Ehrenberg) Ehrenberg
D. litoralis (Donkin) Cleve
Eunotia Ehrenberg
Fragilaria Lyngbye
F. bica pitata Mayer
F. constricta Ehrenberg
F. pinnata Ehrenberg
F. striatula Lyngbye
Gomphonema Agardh
G. augur Ehrenberg
G. exiguum Kützing
G. exiguum var. pachycladum (Brébisson) Cleve
G. gracile Ehrenberg
Grammatophora Ehrenberg
G. arctica Cleve
Gyrosigma balticum (Ehrenberg) Rabenhorst
G. fasciola (Ehrenberg) Griffith et Henfrey
Licmophora Agardh
Navicula Bory
N. cancellata Donkin
N. crassirostris Grunow
N. debilissima Grunow
N. directa (Wm Smith) Ralfs
N. directa var. subtilis (Gregory) Cleve
N. gastrum (Ehrenberg) Kützing
N. granii (E. Joergensen) Gran
N. grevillei (Agardh) Heiberg
N. lineola Grunow

Table 1 (cont'd)

N. peregrina (Ehrenberg) Kützing
N. transitans Cleve
N. transitans var. derasa (Grunow) Cleve
N. trigonocephala Cleve
N. valida Cleve et Grunow
N. vanhoeffenii Gran
Nitzschia Hassall
N. acicularis (Kützing) Wm. Smith
N. cylindrus (Grunow) Hasle
N. delicatissima Cleve
N. frigida Grunow
N. gelida Cleve et Grunow
N. grunowii Hasle
N. linearis (Agardh) Wm. Smith
N. seriata Cleve
Pinnularia Ehrenberg
P. groenlandica (Cleve) Cleve
P. quadratarea (Schmidt) Cleve
P. quadratarea var. stuxbergii (Cleve) Cleve
Pleurosigma Wm. Smith
Rhabdonema Kützing
R. arcuatum (Lyngbye) Kützing
Stauroneis quadripedis (Cleve-Euler) Hendey
Synedra Ehrenberg
S. tabulata (Agardh) Kützing
Tabellaria Ehrenberg
T. fenestrata (Lyngbye) Kützing
T. flocculosa (Roth) Kützing
Thalassionema Grunow
T. nitzschioides (Grunow) Van Heurck

Chlorophyta

Ankistrodesmus Corda
A. falcatus (Corda) Ralfs
Carteria vectensis Conrad et Kufferath
Chlamydomonas Ehrenberg
C. ballenyana Kol et Flint
C. pulsatilla Wohlenweber
Cosmarium Corda
Micrasterias Agardh

Table 1 (cont'd)

Chrysophyta

Calyptosphaera oblonga Lohmann
Coccolithus huxleyi (Lohmann) Kamptner
Dictyocha Ehrenberg
Dinobryon Ehrenberg
D. balticum (Schütt) Lemmermann
D. cylindricum Imhof
Mallomonas Perty
Phaeocystis pouchetii (Hariot) Lagerheim
Salpingoeca natans Grøntved

Cyanophyta

Lyngbya Agardh

Euglenophyta

Euglena Ehrenberg
E. acus Ehrenberg
E. proxima Dangeard
E. schmitzii Gojdics
E. viridis Ehrenberg

Pyrrophyta

Dinophysis Ehrenberg
D. arctica Mereschkowsky
Goniaulax Diesing
G. monilata Howell
G. scrippsae Kofoed
Gymnodinium Stein
G. lohmanni Paulsen
Gyrodinium spirale (Bergh) Kofoed et Swezy
Oxytoxum Stein
Peridinium Ehrenberg
P. minusculum Pavillard
P. pellucidum (Bergh) Schütt
Prorocentrum Ehrenberg
P. micans Ehrenberg
P. rampii Sournia
Proto-peridinium diabolium (Cleve) Balech
P. punctulatum (Paulsen) Balech

Table 2 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 1, August 17, 1984.

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
Seawater temperature (°C)	1.3	1.2	1.1	1.1	1.1	1.0	0.8	0.8	0.9	0.7
Salinity (o/oo)	29.73	29.73	29.78	29.79	29.82	29.89	29.91	29.91	29.90	30.33
Total phytoplankton (cells/litre)	482,356	265,146	374,518	1,301,762	1,990,842	849,366	419,440	722,033	419,252	375,416
<i>Bacillariophyta</i>										
<i>Centrales</i>	467,376	217,210	346,056	587,216	1,957,137	804,426	325,066	656,124	404,640	365,300
<i>Biddulphia</i> sp.	325,066	149,800	202,230	367,010	721,287	557,256	242,676	332,556	367,548	238,288
<i>B. aurita</i>	-	-	-	1,498	-	-	-	-	-	-
<i>Chaetoceros</i> sp.	-	-	1,498	-	2,247	-	-	1,498	2,248	-
<i>C. affinis</i>	-	1,498	-	-	-	-	-	-	-	-
<i>C. decipiens</i>	13,482	-	17,976	19,474	4,494	4,494	14,980	8,988	12,364	2,248
<i>C. diadema</i>	17,976	1,498	10,486	19,474	8,988	26,964	2,996	20,972	13,488	23,604
<i>C. furcellatus</i>	-	-	-	-	-	2,247	-	-	-	-
<i>C. holsaticus</i>	1,498	-	19,474	8,988	2,247	4,494	14,980	35,952	23,604	29,224
<i>C. septentrionalis</i>	-	-	-	-	-	-	4,494	-	-	1,124
<i>C. wighamii</i>	-	-	1,498	5,992	2,247	-	4,494	1,498	5,620	2,248
<i>Coscinodiscus centralis</i>	-	-	-	-	2,247	11,235	1,498	-	-	-
<i>Eucampia</i> sp.	1,498	-	-	-	4,494	-	-	-	1,124	-
<i>Leptocylindrus danicus</i>	2,996	-	-	-	-	-	-	-	-	-
<i>Thalassiosira</i> sp.	62,916	-	-	-	-	-	-	-	-	-
<i>T. bioculata</i> var. <i>exigua</i>	2,996	1,498	-	5,992	-	-	-	-	-	-
<i>T. decipiens</i>	214,214	145,306	151,298	1,498	4,494	-	1,498	1,498	1,124	-
<i>T. gravida</i>	-	-	-	298,102	678,594	507,822	197,736	262,150	303,480	179,840
<i>T. hyalina</i>	4,494	-	-	-	11,235	-	-	-	4,496	-
	-	-	-	5,992	-	-	-	-	-	-

∞

Table 2 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
Pennales										
<i>Achnanthes taeniata</i>	142,310	67,410	143,826	220,206	1,235,850	247,170	82,390	323,568	37,092	127,012
<i>Amphiprora</i> sp.	1,498	-	-	-	-	-	-	-	-	-
<i>Asterionella formosa</i>	-	-	-	-	-	-	1,498	-	-	-
<i>Cocconeis scutellum</i> var. <i>parva</i>	-	-	-	-	-	-	-	-	8,992	-
<i>Cylindrotheca closterium</i>	-	1,498	4,494	-	-	-	-	1,498	-	-
<i>Cymbella</i> sp.	-	-	1,498	-	-	-	-	2,996	1,124	1,124
<i>Diploneis</i> sp.	7,490	-	-	-	-	-	-	-	-	-
<i>D. didyma</i>	-	1,498	-	-	-	-	-	-	2,248	-
<i>Fragilaria</i> sp.	-	-	1,498	4,494	2,247	-	-	-	-	-
<i>F. bicapitata</i>	-	-	-	-	-	-	-	-	1,124	-
<i>F. constricta</i>	1,498	-	-	-	-	-	-	-	2,248	-
<i>F. pinnata</i>	-	-	1,498	-	-	-	-	-	-	-
<i>F. striatula</i>	-	-	-	-	-	-	-	-	-	-
<i>Gomphonema</i> sp.	1,498	-	-	-	-	-	-	-	-	9
<i>G. exiguum</i> var. <i>pachycladum</i>	1,498	-	1,498	-	-	-	-	5,992	-	53,952
<i>Grammatophora</i> sp.	-	-	-	-	-	-	-	-	-	-
<i>Navicula</i> sp.	28,462	-	-	-	-	-	-	-	-	-
<i>N. cancellata</i>	-	-	5,992	19,474	2,247	22,470	1,498	-	1,124	-
<i>N. debilissima</i>	1,498	-	-	-	-	-	1,498	13,482	4,496	3,372
<i>N. directa</i>	-	-	1,498	1,498	-	-	-	-	-	-
<i>N. granii</i>	-	-	-	-	-	-	-	-	1,124	-
<i>N. peregrina</i>	32,956	61,418	62,916	125,832	2,247	-	-	-	-	-
<i>N. transitans</i>	2,996	-	-	1,498	611,184	4,494	-	-	-	52,828
<i>N. trionocephala</i>	4,474	1,498	2,996	-	-	-	-	-	-	-
<i>N. vanhoefenii</i>	-	-	-	-	-	-	-	4,494	1,124	3,372
	2,996	-	16,478	1,498	-	-	-	-	1,124	-

Table 2 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
<i>Nitzschia</i> sp.	-	-	-	1,498	-	-	1,498	-	-	-
<i>N. acicularis</i>	1,498	1,498	-	-	-	-	-	2,996	3,372	1,124
<i>N. cylindrus</i>	26,964	-	2,996	49,434	-	-	20,972	26,964	4,496	1,124
<i>N. delicatissima</i>	-	-	-	-	6,741	6,741	17,976	-	2,248	2,248
<i>N. gelida</i>	-	-	-	-	-	-	1,498	-	-	-
<i>N. grunowii</i>	32,956	-	23,986	-	611,184	213,465	35,952	265,146	2,248	-
<i>N. seriata</i>	1,498	-	14,980	-	-	-	-	-	-	7,868
<i>Pinnularia</i> sp.	-	-	1,498	-	-	-	-	-	-	-
<i>Stauroneis quadripedis</i>	-	-	-	14,980	-	-	-	-	-	-
<i>Chlorophyta</i>										
<i>Ankistrodesmus falcatus</i>	4,494	29,960	11,984	121,338	17,976	31,458	67,410	10,486	2,248	6,704
<i>Carteria vectensis</i>	1,498	-	-	-	-	-	10,486	-	-	-
<i>Chlamydomonas</i> sp.	-	-	5,992	4,494	-	-	-	2,996	-	-
<i>C. ballenyana</i>	1,498	2,996	1,498	10,486	13,482	24,717	20,972	5,992	-	3,372
<i>C. pulsatilla</i>	1,498	5,992	-	7,490	-	-	-	-	1,124	2,248
<i>Cosmarium</i> sp.	-	16,478	4,494	44,940	4,494	2,247	31,458	1,498	1,124	1,124
<i>Micrasterias</i> sp.	-	2,996	-	41,944	-	2,247	4,494	-	-	-
-	-	1,498	-	11,984	-	2,247	-	-	-	-
<i>Chrysophyta</i>										
<i>Calyptrosphaera oblonga</i>	5,992	4,494	2,996	552,762	2,247	2,247	13,482	8,988	3,372	1,124
<i>Coccolithus huxleyi</i>	4,494	1,498	1,498	548,268	2,247	-	11,984	7,490	2,248	-
<i>Dinobryon balticum</i>	-	-	1,498	-	-	-	-	-	-	1,124
<i>Mallomonas</i> sp.	-	-	-	-	-	2,247	-	-	-	-
<i>Phaeocystis pouchetii</i>	-	2,996	-	4,494	-	-	1,498	-	1,124	-
<i>Salpingoeca natans</i>	1,498	-	-	-	-	-	-	1,498	-	-
<i>Cyanophyta</i>										
<i>Lyngbya</i> sp.	-	-	-	-	-	-	-	38,945	5,620	-
-	-	-	-	-	-	-	-	38,945	5,620	-

Table 2 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
Euglenophyta										
<i>Euglena</i> sp.	-	1,498	4,494	5,992	-	-	-	1,498	1,124	2,248
<i>E. acus</i>	-	1,498	2,996	-	-	-	-	-	-	-
<i>E. proxima</i>	-	-	-	1,498	-	-	-	-	-	1,124
<i>E. schmitzii</i>	-	-	-	4,494	-	-	-	1,498	-	1,124
	-	-	1,498	-	-	-	-	-	1,124	-
Pyrrophyta										
<i>Dinophysis</i> sp.	4,494	5,992	2,996	10,486	13,482	11,235	13,482	5,992	2,248	-
<i>D. arctica</i>	-	-	1,498	-	-	-	-	-	-	-
<i>Goniaulax</i> sp.	-	-	-	-	-	-	1,498	-	-	-
<i>G. cyst</i>	-	-	-	-	-	-	2,996	1,498	-	-
<i>G. scrippsae</i>	-	-	-	5,992	6,741	-	8,988	-	-	-
<i>Gymnodinium</i> sp.	-	-	-	-	-	2,247	-	-	-	-
<i>G. lohmanni</i>	2,996	1,498	-	-	2,247	6,741	-	1,498	-	-
<i>Peridinium</i> sp.	-	4,494	-	2,996	2,247	-	-	-	1,124	-
<i>Protoperidinium diabolum</i>	-	-	1,498	-	2,247	2,247	-	-	-	-
	1,498	-	-	1,498	-	-	-	2,996	1,124	-
Unidentified algal spore	-	5,992	4,494	23,968	-	-	-	-	-	-

Table 3 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 7 August 23, 1984

Sample depth (m)	0	1	3	5
Seawater temperature (°C)	0.2	-0.4	0.4	0.5
Salinity (‰)	20.00	27.14	29.57	29.76
Total phytoplankton (cells/litre)	307,976	602,207	1,235,862	781,959
Bacillariophyta	241,660	476,372	1,170,693	735,518
Centrales	189,956	447,157	961,717	635,152
<u>Biddulphia</u> sp.	-	2,248	2,248	4,494
<u>B. aurita</u>	-	-	-	2,996
<u>Chaetoceros affinis</u>	1,124	2,248	15,729	11,984
<u>C. decipiens</u>	4,496	15,729	31,458	56,924
<u>C. furcellatus</u>	143,872	328,062	404,460	254,660
<u>C. septentrionalis</u>	-	-	-	8,988
<u>C. spores</u>	-	-	-	1,498
<u>C. wighami</u>	2,248	2,248	11,235	16,478
<u>Coscinodiscus centralis</u>	-	2,248	-	-
<u>Leptocylindrus danicus</u>	-	94,374	2,248	1,498
<u>Thalassiosira</u> sp.	-	-	2,248	-
<u>T. decipiens</u>	38,216	-	496,587	274,134
<u>T. gravida</u>	-	-	-	1,498
Pennales	51,704	29,215	208,976	100,366
<u>Cocconeis scutellum</u>	-	-	2,248	-
<u>C. thumensis</u>	-	-	4,494	-
<u>Cylindrotheca</u>	4,496	-	-	8,988
<u>Cymbella</u> sp.	1,124	-	-	-
<u>Diploneis litoralis</u>	-	2,248	-	-
<u>Fragilaria pinnata</u>	2,248	4,494	-	-
<u>Gomphonema</u> sp.	-	-	20,223	-
<u>Gyrosigma balticum</u>	-	-	-	1,498
<u>Navicula</u> sp.	10,116	11,235	2,248	-
<u>N. cancellata</u>	1,124	-	4,494	1,498
<u>N. debilissima</u>	-	-	6,741	-
<u>N. granii</u>	13,488	-	-	-
<u>N. peregrina</u>	-	-	2,248	1,498

Table 3 (cont'd)

Sample depth (m)	0	1	3	5
<u>N. transitans</u>	-	4,494	4,494	1,498
<u>N. transitans</u> var. <u>derasa</u>	1,124	-	-	-
<u>N. trigonocephala</u>	2,248	-	-	-
<u>Nitzschia acicularis</u>	-	-	-	1,498
<u>N. cylindrus</u>	7,868	-	42,693	2,996
<u>N. delicatissima</u>	3,372	-	4,494	10,486
<u>N. gelida</u>	1,124	2,248	-	1,498
<u>N. grunowii</u>	1,124	-	105,609	65,912
<u>N. seriata</u>	1,124	-	-	2,996
<u>Pinnularia groenlandica</u>	-	2,248	-	-
<u>Rhabdonema arcuatum</u>	1,124	-	2,248	-
<u>Synedra</u> sp.	-	-	2,248	-
<u>S. tabulata</u>	-	2,248	4,494	-
Chlorophyta	50,580	51,681	22,471	22,470
<u>Carteria vectensis</u>	12,364	26,964	6,741	1,498
<u>Chlamydomonas</u> sp.	-	11,235	6,741	2,996
<u>C. ballenyana</u>	19,108	8,988	6,741	16,478
<u>C. pulsatilla</u>	19,108	4,494	2,248	1,498
Chrysophyta	2,248	8,988	13,482	1,498
<u>Calyptrosphaera oblonga</u>	2,248	8,988	13,482	-
<u>Dinobryon balticum</u>	-	-	-	1,498
Cyanophyta	-	-	2,248	5,992
<u>Lyngbya</u> sp.	-	-	2,248	5,992
Euglenophyta	1,124	-	4,496	5,992
<u>Euglena</u> sp.	1,124	-	2,248	2,996
<u>E. schmitzii</u>	-	-	2,248	2,996

Table 3 (cont'd)

Sample depth (m)	0	1	3	5
Pyrrophyta	12,364	29,214	22,472	4,494
<u>Goniaulax</u> sp.	3,372	6,741	2,248	-
<u>G.</u> cyst	2,248	8,988	4,494	-
<u>Gymnodinium</u> sp.	1,124	-	8,988	-
<u>G. lohmanni</u>	-	6,741	-	-
<u>Peridinium</u> sp.	2,248	2,248	2,248	-
<u>Prorocentrum</u> sp.	-	-	4,494	-
<u>P. rampii</u>	2,248	2,248	-	4,494
<u>Protoperidinium diabolium</u>	1,124	2,248	-	-
Unidentified algal spore	-	35,952	-	5,992

Table 4 Sewater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 6, August 25, 1984.

Sample depth (m)	0	1	3	5	7	10	20	30	37
Sewater temperature (°C)	2.1	2.1	2.0	1.9	1.9	1.9	1.9	1.8	1.9
Salinity (‰)	29.87	29.87	29.88	29.91	29.93	29.91	29.91	29.94	29.90
Total phytoplankton (cells/litre)	465,138	445,104	1,891,991	824,716	615,264	421,500	432,738	276,504	524,069
Bacillariophyta	357,278	401,268	763,995	674,166	580,320	394,524	383,284	249,528	501,592
Centrales	319,075	309,100	577,481	602,256	425,568	378,788	287,744	219,180	479,115
Biddulphia sp.	2,248	1,124	-	-	1,248	6,744	7,868	4,496	-
B. aurita	-	-	4,494	-	-	-	-	-	-
Chaetoceros affinis	-	24,728	17,976	83,198	46,176	2,248	5,620	1,124	-
C. atlanticus	-	2,248	20,223	-	-	-	3,372	1,124	-
C. borealis	-	16,860	20,223	2,248	-	-	-	-	-
C. debilis	-	-	-	-	-	-	-	-	-
C. decipiens	20,223	21,356	38,199	11,235	39,936	15,736	13,488	4,496	72,163
C. furcellatus	150,549	39,340	44,940	247,170	49,920	100,036	50,580	78,680	14,196
C. septentrionalis	-	-	2,248	-	1,248	3,372	2,248	1,124	115,934
C. wighamii	-	-	-	-	4,992	-	-	-	2,366
Coscinodiscus centralis	-	-	2,248	-	-	-	-	-	-
Leptocylindrus danicus	-	-	-	4,494	-	-	-	-	-
Thalassiosira sp.	-	-	-	-	-	-	-	-	-
T. decipiens	146,055	171,972	422,436	253,911	1,248	-	-	1,124	1,183
T. gravida	-	29,224	4,494	-	263,328	250,652	204,568	127,012	268,541
T. nordenskiöldii	-	2,248	-	-	13,728	-	-	-	4,732
	-	-	-	-	3,744	-	-	-	-

Table 4 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	37
Pennales	38,203	92,168	186,514	71,910	154,752	15,736	95,540	30,348	22,477
<u>Achnanthes taeniata</u>	-	-	2,248	4,494	-	-	-	-	-
<u>Amphiprora kjellmanii</u> var. <u>Kariana</u>	-	2,248	-	-	-	-	-	-	-
<u>Amphora terroris</u>	-	-	-	4,494	-	-	-	-	-
<u>Cocconeis scutellum</u>	-	-	-	-	-	-	1,124	-	-
<u>C. thumensis</u>	-	-	2,248	-	-	-	-	-	-
<u>Cylindrotheca closterium</u>	-	-	-	-	1,248	-	1,124	-	-
<u>Diploneis litoralis</u>	-	-	2,248	-	1,248	-	-	-	-
<u>Fragilaria</u> sp.	-	-	2,248	-	-	2,248	-	-	5,915
<u>F. bicapitata</u>	-	-	-	13,482	-	-	-	-	-
<u>F. pinnata</u>	-	5,620	6,741	6,741	-	-	11,240	3,372	1,183
<u>Gomphonema</u> sp.	2,248	2,248	2,248	2,248	1,248	1,124	1,124	2,248	-
<u>G. exiguum</u> var. <u>pachycladum</u>	-	-	-	-	1,248	-	-	-	-
<u>G. gracile</u>	2,248	1,124	-	-	-	-	-	-	-
<u>Navicula</u> sp.	2,248	2,248	-	-	2,496	-	2,248	-	2,366
<u>N. cancellata</u>	-	-	2,248	-	-	-	-	-	-
<u>N. crassirostris</u>	-	-	2,248	-	-	-	-	-	-
<u>N. debilissima</u>	-	-	2,248	-	-	-	-	-	1,183
<u>N. grantii</u>	-	-	-	2,248	-	-	-	-	-
<u>N. peregrina</u>	-	1,124	-	-	-	-	-	-	-
<u>N. rhynchocephala</u>	-	-	2,248	2,248	-	-	-	-	-
<u>N. transitans</u>	-	-	2,248	2,248	-	1,124	3,372	1,124	1,183
<u>N. transitans</u> var. <u>derasa</u>	2,248	2,248	-	4,494	2,496	-	-	-	-
<u>N. trigonocephala</u>	-	-	-	-	-	-	-	-	-
<u>N. trigonocephala</u> var. <u>depressa</u>	-	-	-	-	-	-	3,372	-	-

Table 4 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	37
<i>Nitzschia</i> sp.	-	-	2,248	-	-	1,124	-	-	1,183
<i>N. acicularis</i>	-	7,868	4,494	4,494	-	5,620	1,124	-	-
<i>N. cylindrus</i>	-	19,108	98,868	11,235	34,944	4,496	-	-	2,366
<i>N. delicatissima</i>	-	1,124	2,248	-	-	-	-	-	1,183
<i>N. frigida</i>	-	-	2,248	-	-	-	-	-	-
<i>N. grunowii</i>	-	46,084	26,964	4,494	101,088	-	53,952	20,232	-
<i>N. linearis</i>	-	-	-	-	-	-	14,612	-	-
<i>N. seriata</i>	-	-	13,482	4,494	4,992	-	1,124	3,372	4,732
<i>Rhabdonema</i> sp.	-	-	-	-	1,248	-	-	-	-
<i>R. arcuatum</i>	-	-	-	-	-	-	-	-	1,183
<i>Stauroneis quadripedis</i>	11,235	-	-	-	-	-	-	-	-
<i>Synedra</i> sp.	-	-	-	2,248	2,496	-	1,124	-	-
<i>S. tabulata</i>	-	1,124	-	-	-	-	-	-	-
Chlorophyta									
<i>Charteria vectensis</i>	69,658	13,488	1,114,513	74,151	23,712	12,364	29,222	14,612	8,281
<i>Chlamydomonas</i> sp.	11,235	-	-	6,741	9,984	3,372	14,612	5,620	-
<i>C. ballenyana</i>	6,741	1,124	-	-	-	-	-	-	-
<i>C. pulsatilla</i>	26,964	3,372	1,112,265	58,422	13,728	4,496	4,496	5,620	2,366
<i>Cosmarium</i> sp.	22,470	7,868	2,248	8,988	-	4,496	8,992	3,372	5,915
<i>Micrasterias</i> sp.	-	1,124	-	-	-	-	1,124	-	-
	2,248	-	-	-	-	-	-	-	-
Chrysophyta									
<i>Calyptrosphaera oblonga</i>	17,977	11,240	11,235	69,657	7,488	7,868	3,372	2,248	7,098
<i>Dictyocha</i> sp.	6,741	5,620	-	69,657	2,496	1,124	2,248	1,124	4,732
<i>Dinobryon balticum</i>	-	-	-	-	-	1,124	-	-	-
<i>D. cylindricum</i>	8,988	3,372	-	-	2,496	2,248	-	-	-
	2,248	-	-	-	-	-	-	-	-

Table 4 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	37
<u>Mallomonas</u> sp.	-	-	-	-	-	2,248	-	-	-
<u>Phaeocystis pouchetii</u>	-	2,248	11,235	-	2,496	1,124	-	1,124	2,366
<u>Salpingoeca natans</u>	-	-	-	-	-	-	1,124	-	-
Cyanophyta	-	-	-	-	-	-	6,744	-	-
<u>Lyngbya</u> sp.	-	-	-	-	-	-	6,744	-	-
Euglenophyta	11,235	10,116	-	6,742	-	1,124	1,124	2,248	1,183
<u>Euglena</u> sp.	-	-	-	2,248	-	-	-	-	-
<u>E. schmitzii</u>	11,235	10,116	-	-	-	1,124	1,124	2,248	1,183
Pyrrophyta	4,496	8,992	-	4,494	3,744	4,496	6,744	7,868	3,549
<u>Goniaulax</u> cyst	-	5,620	-	-	-	-	-	-	-
<u>G.</u> sp.	-	-	-	-	-	-	-	1,124	-
<u>G. scrippsae</u>	-	-	-	-	-	1,124	1,124	2,248	2,366
<u>Gymnodinium</u> sp.	2,248	-	-	-	1,248	-	2,248	-	-
<u>G. lohmanni</u>	-	2,248	-	-	1,248	1,124	-	2,248	-
<u>Gyrodinium spirale</u>	2,248	-	-	-	-	-	-	-	-
<u>Peridinium</u> sp.	-	-	-	-	-	1,124	1,124	2,248	1,183
<u>P. minusculum</u>	-	1,124	-	-	-	-	-	-	-
<u>Prorocentrum micans</u>	-	-	-	-	1,248	-	-	-	-
<u>P. rampii</u>	-	-	-	-	-	1,124	2,248	-	-
<u>Protoperidinium diabolum</u>	-	-	-	4,494	-	-	-	-	-
Unidentified algal spore	4,494	-	2,248	-	-	1,124	2,248	-	2,366

Table 5 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 2, August 25, 1984.

Sample depth (m)	0	1	3	5	7	10	20	30	40
Seawater temperature (°C)	1.8	1.8	1.7	1.6	1.6	1.4	1.4	1.4	1.4
Salinity (‰)	29.89	29.89	29.89	29.89	29.96	29.98	30.05	30.13	30.12
Total phytoplankton (cells/litre)	345,071	709,525	395,616	590,974	795,448	2,415,532	599,963	510,015	1,103,232
Bacillariophyta	294,488	629,440	346,944	534,795	750,503	990,933	558,467	493,155	1,058,304
Centrales	239,412	501,585	320,736	458,389	629,162	887,565	449,540	417,285	909,792
Biddulphia sp.	-	-	-	-	-	-	5,187	-	-
B. aurita	-	-	11,232	-	-	-	-	-	-
Chaetoceros affinis	21,356	25,290	11,232	17,976	20,223	6,741	25,935	14,050	18,720
C. atlanticus	2,248	-	-	-	2,248	-	-	-	3,744
C. borealis	-	-	1,248	-	-	-	-	4,215	-
C. debilis	-	-	-	-	-	-	-	-	7,488
C. decipiens	15,736	22,480	29,952	33,705	33,705	13,482	22,477	21,075	22,464
C. furcellatus	78,680	212,155	67,392	164,031	202,230	80,892	195,377	137,690	73,632
C. septentrionalis	1,124	-	2,496	6,741	2,248	-	3,458	1,405	4,992
Coscinodiscus centralis	1,124	-	-	2,248	-	-	-	-	1,248
C. lacustris var. septentrionalis	-	-	1,248	-	-	-	-	-	-
Cyclotella sp.	1,124	-	-	-	-	-	-	-	-
Eucampia sp.	-	-	-	-	6,741	-	-	-	1,248
Leptocylindrus danicus	-	32,315	-	-	7,976	-	-	-	-
Thalassiosira decipiens	114,648	161,575	187,200	233,688	339,297	781,956	197,106	238,850	770,016
T. gravida	3,372	47,770	8,736	-	-	4,494	-	-	6,240

Table 5 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40
Pennales									
<i>Achnanthes taeniata</i>	55,076	127,855	26,208	76,406	721,341	103,368	108,927	75,870	148,512
<i>Amphora terroris</i>	-	-	6,240	-	2,248	-	-	-	-
<i>Cocconeis scutellum</i>	1,124	-	-	-	4,494	-	-	-	-
<i>Cylindrotheca closterium</i>	-	-	2,496	-	-	-	-	1,405	-
<i>Diploneis</i> sp.	-	-	-	2,248	-	-	-	-	-
<i>Fragilaria</i> sp.	-	-	1,248	2,248	-	-	-	-	-
<i>F. bicapitata</i>	2,248	-	-	-	-	-	-	-	2,496
<i>F. pinnata</i>	-	2,810	2,496	2,248	2,248	2,248	1,729	1,405	2,496
<i>Gomphonema</i> sp.	1,124	1,405	1,248	-	-	-	-	2,810	-
<i>Limnophora</i> sp.	-	-	-	-	-	-	-	-	1,248
<i>Navicula</i> sp.	-	1,405	-	-	-	2,248	1,729	1,405	-
<i>N. cancellata</i>	-	-	-	-	-	4,494	-	-	2,496
<i>N. debillissima</i>	-	-	-	2,248	-	-	-	-	-
<i>N. directa</i>	-	-	-	-	-	-	-	-	-
<i>N. granii</i>	-	-	1,248	-	-	-	-	-	-
<i>N. peregrina</i>	-	-	-	4,494	-	-	13,832	-	-
<i>N. transitans</i>	1,124	1,405	-	2,248	-	-	-	-	1,248
<i>N. transitans</i> var. <i>derasa</i>	3,372	1,405	-	2,248	-	2,248	3,458	1,405	1,248
<i>Mitschia</i> sp.	-	2,810	-	-	-	-	1,729	-	1,248
<i>N. acicularis</i>	-	4,215	-	2,248	-	-	-	1,405	1,248
<i>N. cylindrus</i>	1,124	60,415	1,248	-	-	-	-	-	1,248
<i>N. delicatissima</i>	3,372	-	-	2,248	87,633	13,482	3,458	1,405	64,896
<i>N. frigida</i>	-	1,405	-	-	4,494	2,248	-	-	-
<i>N. gelida</i>	-	-	1,248	-	-	6,741	-	-	-

Table 5 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40
<i>N. grunowii</i>	39,340	47,770	2,496	53,928	17,976	65,163	82	64,630	67,392
<i>N. linearis</i>	1,124	-	3,744	-	-	2,248	-	-	-
<i>N. seriata</i>	-	1,405	-	-	2,248	2,248	-	-	-
<i>Pinnularia</i> sp.	-	1,405	-	-	-	-	-	-	-
<i>P. quadratarea</i> var. <i>stuxbergii</i>	-	-	1,248	-	-	-	-	-	-
<i>Synedra</i> sp.	1,124	-	-	-	-	-	-	-	1,248
Chlorophyta									
<i>Carteria vectensis</i>	21,356	18,265	18,720	42,694	26,964	1,357,189	29,393	9,835	29,952
<i>Chlamydomonas</i> sp.	4,496	-	-	4,494	-	-	1,729	-	-
<i>C. balleniana</i>	-	7,025	3,744	2,248	-	-	5,187	2,810	-
<i>C. pulsatilla</i>	13,488	8,430	6,240	31,458	17,976	1,354,941	20,748	4,215	24,960
<i>Micrasterias</i> sp.	3,372	2,810	7,488	4,494	8,988	-	1,729	2,810	3,744
	-	-	1,248	-	-	2,248	-	-	1,248
Chrysophyta									
<i>Calyptrosphaera oblonga</i>	17,987	44,960	17,472	2,248	11,237	67,410	6,916	1,405	2,496
<i>Dinobryon balticum</i>	15,736	42,150	14,976	-	6,741	67,410	3,458	1,405	-
<i>D. cylindricum</i>	1,124	2,810	1,248	2,248	-	-	-	-	-
<i>Phaeocystis pouchetii</i>	1,124	-	1,248	-	2,248	-	-	-	-
<i>Salpingoeca natans</i>	-	-	-	-	-	-	3,458	-	2,496
	-	-	-	-	2,248	-	-	-	-
Euglenophyta									
<i>Euglena acus</i>	2,248	-	1,248	2,248	2,248	-	3,458	-	-
<i>E. schmitzii</i>	1,124	-	-	-	-	-	-	-	-
	1,124	-	1,248	2,248	2,248	-	3,458	-	-

Table 5 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40
Pyrrophyta	3,372	12,645	4,992	8,989	4,496	-	1,729	5,620	12,480
<u>Goniaulax</u> sp.	1,124	5,620	-	2,248	2,248	-	-	-	2,496
<u>G. cyst</u>	-	5,620	2,496	-	-	-	1,729	-	-
<u>G. scrippsae</u>	1,124	1,405	1,248	6,741	2,248	-	-	-	2,496
<u>Gymnodinium</u> sp.	-	-	-	-	-	-	-	4,215	3,744
<u>G. lohmanni</u>	-	-	1,248	-	-	-	-	-	2,496
<u>Peridinium</u> sp	-	-	-	-	-	-	-	1,405	-
<u>Prorocentrum</u> sp	1,124	-	-	-	-	-	-	-	-
<u>Protoperidinium diabolium</u>	-	-	-	-	-	-	-	-	1,248
Unidentified algal spore	5,620	4,215	6,240	-	-	-	-	-	-

Table 6 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 1, August 27, 1984.

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
Seawater temperature (°C)	1.9	1.6	1.6	1.4	1.5	1.1	1.1	0.8	0.5	0.5
Salinity (‰)	29.88	30.08	30.30	30.73	30.48	30.87	31.10	31.53	31.73	32.02
Total phytoplankton (cells/litre)	334,390	395,122	408,012	203,424	525,806	546,028	555,016	944,011	197,184	384,408
Bacillariophyta										
Centrales	221,990	254,345	297,860	188,448	447,157	447,160	503,332	757,246	180,960	275,380
<i>Biddulphia</i> sp.	185,460	230,685	225,924	182,208	441,202	366,262	278,629	651,630	153,504	193,328
<i>B. aurita</i>	-	1,183	-	-	-	-	-	-	1,248	1,124
<i>Chaetoceros affinis</i>	12,645	-	2,248	1,248	11,235	8,988	11,235	22,470	4,992	7,868
<i>C. atlanticus</i>	-	-	-	-	-	-	-	-	3,744	-
<i>C. borealis</i>	-	1,183	-	-	-	2,248	-	-	-	-
<i>C. decipiens</i>	25,290	8,281	11,240	17,472	65,163	49,434	13,482	53,928	8,736	24,728
<i>C. furcellatus</i>	54,795	66,248	78,680	87,360	182,007	193,242	137,067	247,170	89,856	106,780
<i>C. septentrionalis</i>	2,810	-	-	1,248	2,248	4,494	-	-	-	-
<i>C. wighamii</i>	-	-	-	-	-	4,494	-	-	-	-
<i>Cyclotella</i> sp.	-	-	-	-	-	4,494	-	4,494	-	-
<i>Leptocylindrus danicus</i>	-	-	-	-	8,988	4,494	-	-	-	-
<i>Thalassiosira decipiens</i>	87,110	146,692	132,632	72,384	141,561	94,374	114,597	310,086	33,696	52,828
<i>T. gravida</i>	2,810	7,098	1,124	2,496	-	-	2,248	13,482	11,232	-
Pennales										
<i>Achnanthes taenolata</i>	36,530	23,660	71,936	6,240	35,955	80,898	224,703	105,616	27,456	82,052
<i>Cocconeis</i> sp.	-	-	-	-	-	-	-	-	1,248	-
	-	1,183	-	-	-	-	-	-	-	-

Table 6 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
<i>C. groenlandica</i>	-	1,183	-	-	-	-	-	-	-	-
<i>C. scutellum</i> var. <i>parva</i>	1,405	-	-	-	-	-	-	-	-	-
<i>Cylindrotheca closterium</i>	1,405	1,183	-	-	-	-	-	-	-	-
<i>Cymbella</i> sp.	-	-	-	-	-	-	-	-	-	1,124
<i>Diploneis</i> sp.	-	1,183	-	-	-	-	-	-	-	-
<i>Fragilaria</i> sp.	-	-	-	-	2,248	2,248	-	2,248	-	-
<i>F. bicapitata</i>	-	-	1,124	-	-	-	2,248	2,248	-	1,124
<i>F. pinnata</i>	-	1,183	-	1,248	-	-	8,988	2,248	6,240	2,248
<i>Gomphonema</i> sp.	2,810	-	1,124	-	11,235	-	-	-	2,496	1,124
<i>G. augur</i>	-	-	-	-	-	2,248	-	-	-	-
<i>G. fasciola</i>	-	-	-	-	-	-	-	-	1,248	-
<i>Limnophora</i> sp.	-	-	-	-	-	2,248	-	-	1,248	-
<i>Navicula</i> sp.	4,215	5,915	5,620	2,496	-	2,248	-	-	1,248	-
<i>N. cancellata</i>	1,405	-	-	1,248	-	2,248	-	4,494	3,744	1,124
<i>N. debilissima</i>	-	-	-	-	-	-	2,248	-	1,248	-
<i>N. directa</i>	-	-	-	-	-	2,248	-	-	-	1,124
<i>N. directa</i> var. <i>subtilis</i>	4,215	-	-	-	6,741	-	-	2,248	-	-
<i>N. granii</i>	-	2,366	-	-	-	-	-	2,248	-	1,124
<i>N. lineola</i>	-	-	-	-	-	-	2,248	-	-	-
<i>N. rhynchocephala</i>	2,810	-	-	1,248	-	-	-	-	-	-
<i>N. transitans</i>	-	-	1,124	-	2,248	-	-	-	1,248	1,124
<i>Mitschia</i> sp.	5,620	-	1,124	-	-	-	4,494	-	1,248	-
<i>N. acicularis</i>	-	-	-	-	-	-	-	2,248	-	-
<i>N. cylindrus</i>	2,810	2,366	-	-	11,235	51,681	-	51,681	1,248	-
<i>N. delicatissima</i>	-	-	5,620	-	-	4,494	-	-	-	-
<i>N. grunowii</i>	8,430	-	48,332	-	2,248	11,235	197,736	33,705	2,496	52,828
<i>N. linearis</i>	1,405	2,366	-	-	-	-	-	2,248	1,248	19,108

Table 6 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
<i>N. seriat</i>	-	4,732	7,868	-	-	-	6,741	-	-	-
<i>Synedra tabulata</i>	-	-	-	-	-	-	-	-	2,496	-
Chlorophyta										
<i>Carteria vectensis</i>	26,695	87,542	19,108	8,736	53,929	76,398	26,964	139,573	13,728	8,992
<i>Chlamydomonas</i> sp.	-	1,183	1,124	-	2,248	6,741	-	4,494	2,496	-
<i>C. ballenyan</i>	9,835	83,993	11,240	3,744	40,446	60,669	15,729	17,976	-	1,124
<i>C. pulsatilla</i>	16,860	2,366	1,124	4,992	11,235	8,988	6,741	31,458	6,240	7,868
									4,992	-
Chrysophyta										
<i>Calyptrosphaera oblonga</i>	70,250	46,137	85,424	2,496	11,238	4,494	6,741	24,719	-	65,192
<i>Dictyocha</i> sp.	63,225	43,771	82,052	-	-	-	6,741	13,482	-	64,068
<i>Dinobryon</i> sp.	2,810	2,366	1,124	1,248	-	-	-	-	-	-
<i>Mallomonas</i> sp.	-	-	-	-	4,494	-	-	2,248	-	-
<i>Phaeocystis pouchetii</i>	4,215	-	2,248	-	2,248	4,494	-	-	-	-
<i>Salpingoeca natans</i>	-	-	-	1,248	2,248	-	-	6,741	-	1,124
								2,248	-	-
Cyanophyta										
<i>Lyngbya</i> sp.	-	4,732	-	1,128	-	-	-	-	-	-
	-	4,732	-	1,248	-	-	-	-	-	-
Euglenophyta										
<i>Euglena</i> sp.	8,430	1,183	3,372	1,248	4,494	11,235	6,741	4,494	-	3,372
<i>E. acus</i>	-	-	1,124	-	-	-	-	-	-	3,372
<i>E. proxima</i>	-	1,183	-	-	-	-	-	-	-	-
<i>E. schmitzii</i>	4,215	-	-	-	-	-	-	-	-	-
	4,215	-	2,248	1,248	4,494	11,235	6,741	4,494	-	-

Table 6 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	50
Pyrrophyta										
<u>Goniaulax</u> sp.	5,620	1,183	2,248	-	4,496	6,741	8,990	6,744	2,496	8,992
G. sp.	-	-	-	-	2,248	-	4,494	-	-	1,124
<u>G. scrippsae</u>	1,405	-	1,124	-	-	-	-	-	-	4,496
<u>Gymnodinium lohmanni</u>	1,405	-	1,124	-	2,248	6,741	2,248	2,248	1,248	1,124
<u>Gyrodinium spirale</u>	-	-	-	-	-	-	-	2,248	-	-
<u>Peridinium</u> sp.	1,405	1,183	-	-	-	-	-	2,248	-	2,248
<u>P. minusculum</u>	1,405	-	-	-	-	-	-	-	-	-
<u>Prorocentrum</u> sp.	-	-	-	-	-	-	-	-	1,248	-
<u>P. rampii</u>	-	-	-	-	-	-	2,248	-	-	-
Unidentified algal spore	1,405	-	-	1,248	4,494	-	2,248	11,235	-	22,480

Table 7 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 2, August 23, 1985.

Sample depth (m)	0	1	3	5	7	10	20	30	40
Seawater temperature (°C)	2.3	2.1	1.6	1.4	1.4	1.4	1.3	1.2	1.2
Salinity (‰)	31.00	31.11	31.03	31.10	31.11	31.11	31.21	31.14	31.20
Total phytoplankton (cells/litre)	7,710	7,270	6,420	6,050	6,820	5,610	8,290	9,460	5,900
Bacillariophyta									
Centrales									
<i>Biddulphia</i> sp.	-	10	60	-	-	-	-	-	-
<i>B. aurita</i>	70	-	-	-	-	-	-	-	10
<i>Chaetoceros affinis</i>	720	280	230	270	390	210	440	130	210
<i>C. decipiens</i>	610	330	260	130	170	390	270	-	270
<i>C. furcellatus</i>	4,840	4,640	3,300	2,930	2,340	3,890	2,640	4,080	3,200
<i>C. septentrionalis</i>	20	10	-	-	10	-	20	20	20
<i>Coscinodiscus</i> sp.	-	10	-	-	-	-	-	-	-
<i>Eucampia</i> sp.	-	-	10	-	80	-	-	-	-
<i>E. groenlandica</i>	-	-	20	30	-	40	-	20	10
<i>Melosira arctica</i>	40	-	-	-	-	-	-	-	-
<i>Rhizosolenia</i> sp.	-	-	-	-	-	-	20	-	-
<i>Thalassiosira</i> sp.	-	-	-	-	-	30	-	-	-
<i>T. decipiens</i>	290	1,480	1,500	1,330	2,580	80	2,350	3,660	820
<i>T. gravida</i>	10	100	20	100	20	120	190	190	100
Pennales									
<i>Achnanthes taeniata</i>	850	340	950	1,190	1,150	530	2,280	1,300	1,230
<i>Amphora</i> sp.	-	20	-	40	-	-	-	-	-
<i>Cocconeis</i> sp.	-	-	-	-	-	-	-	10	-
<i>C. scutellum</i>	20	-	-	-	-	-	-	-	-

Table 7 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40
<u>Cylindrotheca closterium</u>	20	30	-	10	-	10	10	-	20
<u>Fragilaria</u> sp.	-	-	10	-	-	-	-	-	-
<u>F. pinnata</u>	-	10	-	-	10	20	20	20	10
<u>Gomphonema</u> sp.	-	-	-	-	-	10	-	-	-
<u>Gyrosigma fasciola</u>	-	-	-	-	10	-	-	-	-
<u>Limnophora</u> sp.	-	-	-	10	-	-	-	10	-
<u>Navicula</u> sp.	20	-	20	-	-	20	-	-	-
<u>N. crassirostris</u>	-	-	-	-	-	-	10	-	-
<u>N. debilissima</u>	10	-	30	-	-	10	-	-	-
<u>N. directa</u>	-	-	-	-	-	-	-	20	-
<u>N. directa</u> var. <u>subtilis</u>	-	-	-	-	-	10	-	-	-
<u>N. granii</u>	470	30	660	610	580	-	660	10	490
<u>N. grevillei</u>	-	-	-	-	-	10	-	-	-
<u>N. transitans</u>	20	-	10	-	10	-	10	30	-
<u>N. transitans</u> var. <u>derasa</u>	10	-	-	-	-	-	-	-	-
<u>N. trigonocephala</u>	-	10	-	-	-	-	10	10	-
<u>N. valida</u>	-	-	-	-	-	-	10	-	-
<u>N. vanhoeffenii</u>	-	-	-	-	-	-	-	-	10
<u>Nitzschia</u> sp.	-	-	20	-	-	10	-	10	-
<u>N. acicularis</u>	-	-	10	-	-	30	-	-	-
<u>N. cylindrus</u>	60	20	100	290	360	90	380	1,040	490
<u>N. delicatissima</u>	60	-	30	40	20	60	90	20	80
<u>N. frigida</u>	-	10	-	-	-	-	-	-	-
<u>N. grunowii</u>	150	90	50	170	160	140	80	110	120
<u>N. linearis</u>	-	10	-	20	-	10	950	-	-

Table 7 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40
<i>N. seriata</i>	-	100	-	-	-	90	50	-	-
<i>Synedra</i> sp.	-	10	-	-	-	-	-	10	-
<i>Tabellaria flocculosa</i>	10	-	10	-	-	10	-	-	-
Chlorophyta	100	30	-	10	40	140	10	10	-
<i>Carteria vectensis</i>	60	10	-	-	-	40	-	-	-
<i>Chlamydomonas ballenyanii</i>	40	10	-	-	10	60	10	10	-
<i>C. pulsatilla</i>	-	10	-	10	30	40	-	-	-
Chrysophyta	20	10	20	20	-	150	-	20	20
<i>Calyptrosphaera oblonga</i>	-	-	-	-	-	150	-	-	-
<i>Dinobryon</i> sp.	10	10	10	10	-	-	-	10	-
<i>C. cylindricum</i>	-	-	-	-	-	-	-	-	20
<i>Mallomonas</i> sp.	10	-	10	10	-	-	-	-	-
<i>Salpingoeca natans</i>	-	-	-	-	-	-	-	10	-
Euglenophyta	60	-	20	10	20	-	30	10	-
<i>Euglena</i> sp.	10	-	-	-	-	-	-	10	-
<i>E. acus</i>	-	-	-	-	-	-	30	-	-
<i>E. proxima</i>	-	-	10	-	-	-	-	-	-
<i>E. schmitzii</i>	50	-	10	10	20	-	-	-	-
Pyrrophyta	80	20	30	30	20	30	40	20	10
<i>Goniaulax</i> sp.	-	-	20	-	-	10	10	20	-
<i>G. scrippsae</i>	50	-	-	20	10	-	30	-	-
<i>Gyrodinium spirale</i>	10	-	-	-	-	10	-	-	-
<i>Oxytoxum</i> sp.	-	-	-	10	-	-	-	-	-
<i>Peridinium</i> sp.	10	-	10	-	10	10	-	-	10
<i>Protoperidinium punctulatum</i>	10	20	-	-	-	-	-	-	-

Table 8 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 3, August 24, 1985.

Sample depth (m)	0	1	3	5	7	10	20	30
Seawater temperature (°C)	3.2	2.4	1.9	1.7	1.7	1.7	1.5	1.4
Salinity (‰)	31.00	31.01	31.02	31.03	31.12	31.04	31.06	31.15
Total phytoplankton (cells/litre)	12,935	8,502	5,280	20,859	7,230	12,490	7,200	7,940
Bacillariophyta	12,896	8,398	5,140	20,264	7,120	12,040	7,140	7,860
Centrales	10,972	6,890	4,620	13,702	6,730	10,590	5,980	6,900
Biddulphia sp.	-	-	-	-	-	20	-	-
B. aurita	-	26	-	34	10	-	-	-
Chaetoceros affinis	13	377	260	527	500	1,010	160	450
C. decipiens	-	689	350	1,173	240	590	310	490
C. diadema	1,105	-	10	17	20	30	-	-
C. furcellatus	1,261	3,497	2,730	8,364	3,040	5,860	4,750	5,120
C. septentrionalis	-	65	-	51	-	40	30	10
C. wighamii	-	52	20	-	20	80	-	-
Coscinodiscus sp.	13	-	-	-	-	-	10	-
C. lacustris var. septentrionalis	-	-	10	-	10	10	-	-
Cyclotella sp.	-	13	-	-	-	-	-	-
Eucampia sp.	-	26	-	153	10	-	-	-
Leptocylindrus danicus	39	-	-	-	-	-	-	-
Melosira arctica	91	-	-	-	-	-	-	-
Rhizosolenia sp.	-	-	-	-	10	-	10	-
Thalassiosira sp.	-	-	-	-	-	-	-	-
I. gravida	5,304	2,080	1,230	3,026	2,850	2,880	650	520
I. nordenskiöldii	-	65	10	357	20	70	60	310
I. nordenskiöldii	3,146	-	-	-	-	-	-	-

Table 8 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30
Pennales								
<u>Amphiprora</u> sp.	1,924	1,508	520	6,562	390	1,450	1,160	960
<u>Cocconeis</u> sp.	13	-	-	-	-	10	10	-
<u>Cylindroiheca closterium</u>	26	26	10	-	-	50	-	10
<u>Diploneis</u> sp.	-	13	-	-	-	-	10	10
<u>Fragilaria</u> sp.	-	-	-	-	-	-	-	10
<u>F. pinnata</u>	-	13	20	-	-	40	-	20
<u>Limnophora</u> sp.	-	-	-	51	-	-	20	-
<u>Navicula</u> sp.	-	13	-	51	10	10	-	-
<u>N. directa</u>	-	-	-	-	20	10	-	-
<u>N. directa</u> var. <u>subtilis</u>	-	-	-	-	-	10	-	-
<u>N. granii</u>	1,313	1,261	320	5,304	170	680	820	650
<u>N. transitans</u>	26	26	10	34	-	20	20	-
<u>N. transitans</u> var. <u>derasa</u>	-	-	-	17	-	-	-	-
<u>N. vanhoeffenii</u>	13	-	-	-	-	-	-	-
<u>Nitzschia acicularis</u>	-	52	-	-	-	20	-	-
<u>N. cylindrus</u>	13	-	20	153	40	250	30	80
<u>N. delicatissima</u>	273	-	60	561	50	190	130	80
<u>N. frigida</u>	39	-	10	51	-	10	-	-
<u>N. grunowii</u>	26	91	30	289	90	120	100	80
<u>N. linearis</u>	13	13	10	17	-	-	20	10
<u>N. seriat</u>	169	-	30	34	-	20	-	10
<u>Tabellaria</u> sp.	-	-	-	-	10	-	-	-
<u>T. flocculosa</u>	-	-	-	-	-	10	-	-

Table 8 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30
Chlorophyta								
<u>Carteria vectensis</u>	39	26	60	255	40	120	20	40
<u>Chlamydomonas</u> sp.	-	-	10	68	-	20	-	-
<u>C. ballenyana</u>	26	13	30	85	30	-	20	10
<u>C. pulsatilla</u>	13	13	20	102	10	30	-	30
						70	-	-
Chrysophyta								
<u>Dinobryon</u> sp.	-	-	10	136	20	130	-	-
<u>C. cylindricum</u>	-	-	-	17	20	60	-	-
<u>Mallomonas</u> sp.	-	-	-	102	-	50	-	-
<u>Salpingoeca natans</u>	-	-	10	17	-	10	-	-
	-	-	-	-	-	10	-	-
Euglenophyta								
<u>Euglena</u> sp.	-	26	10	-	10	70	10	20
<u>E. acus</u>	-	26	-	-	-	60	-	-
<u>E. proxima</u>	-	-	-	-	10	-	-	-
<u>E. schmitzii</u>	-	-	-	-	-	-	-	10
	-	-	10	-	-	10	10	10
Pyrrophyta								
<u>Dinophysis</u> sp.	-	52	60	204	40	130	30	20
<u>D. arctica</u>	-	-	-	-	-	10	-	-
<u>Goniatax</u> sp.	-	13	10	-	-	-	10	-
<u>G. monilata</u>	-	-	-	-	-	40	-	-
<u>G. scrippsae</u>	-	-	-	-	-	40	-	-
<u>Gyrodinium spirale</u>	-	26	40	119	20	10	10	-
<u>Peridinium</u> sp.	-	-	-	-	10	-	-	-
<u>Protoperidinium diabolum</u>	-	13	-	85	20	10	10	20
<u>P. punctulatum</u>	-	-	-	-	-	20	-	-
	-	-	10	-	-	-	-	-

Table 9 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 5, September, 1985.

Sample depth (m)	0	1	3	5	7	10	20
Seawater temperature (°C)	2.4	2.1	1.7	1.6	1.7	1.6	1.7
Salinity (‰)	30.84	31.10	31.30	31.29	31.31	31.31	31.35
Total phytoplankton (cells/litre)	3,600	3,320	6,030	3,130	5,100	6,600	7,397
Bacillariophyta							
Centrales							
<i>Chaetoceros affinis</i>	3,310	3,260	5,840	2,960	4,880	6,510	7,293
<i>C. borealis</i>	2,860	2,270	4,900	2,810	3,980	5,760	5,811
<i>C. decipiens</i>	170	40	80	70	80	280	221
<i>C. diadema</i>	-	-	30	-	-	-	-
<i>C. furcellatus</i>	-	180	550	430	-	-	520
<i>C. septentrionalis</i>	450	1,790	3,380	1,590	630	480	26
<i>C. wighami</i>	2,070	10	10	30	2,660	2,330	4,446
<i>Coscinodiscus</i> sp.	10	-	-	-	140	10	26
<i>C. centralis</i>	-	-	-	-	-	40	26
<i>Eucampia</i> sp.	-	10	10	-	20	-	-
<i>Rhizosolenia</i> sp.	-	-	20	-	-	10	13
<i>Thalassiosira</i> sp.	-	-	-	-	-	-	-
<i>I. decipiens</i>	10	-	-	-	-	-	-
<i>I. gravida</i>	150	210	760	510	420	1,740	351
<i>I. nordenskiöldii</i>	-	20	40	-	20	20	182
	-	20	10	180	-	850	-
Pennales							
<i>Cocconeis scutellum</i>	450	990	940	150	900	750	1,482
<i>C. thumensis</i>	20	-	-	-	-	-	13
<i>Cylindrotheca closterium</i>	-	-	-	-	-	10	-
	10	-	10	-	40	50	13

Table 9 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20
<u>Eunotia sp.</u>	10	-	10	-	-	-	-
<u>Fragilaria pinnata</u>	20	20	30	10	40	20	13
<u>Grammatophora arctica</u>	-	-	-	-	10	-	-
<u>Limnophora sp.</u>	60	10	-	20	20	20	26
<u>Navicula sp.</u>	10	-	10	-	-	-	-
<u>N. debilissima</u>	10	-	-	-	-	-	-
<u>N. directa</u>	-	-	-	10	-	-	-
<u>N. directa var. subtilis</u>	30	-	-	-	-	20	-
<u>N. granii</u>	-	860	610	10	680	210	117
<u>N. lineola</u>	-	-	-	-	-	10	-
<u>N. transitans</u>	-	-	-	-	-	20	13
<u>N. transitans var. derasa</u>	-	10	-	-	-	-	13
<u>N. vanhoeffenii</u>	-	-	-	-	-	-	39
<u>Nitzschia acicularis</u>	-	20	-	-	10	30	13
<u>N. cylindrus</u>	60	-	20	20	-	120	897
<u>N. delicatissima</u>	-	-	-	-	10	60	-
<u>N. frigida</u>	-	40	-	-	10	40	-
<u>N. grunowii</u>	140	20	10	70	30	70	78
<u>N. linearis</u>	-	10	210	30	-	60	26
<u>N. seriata</u>	80	-	30	-	-	-	208
<u>Pleurosigma sp.</u>	-	-	-	-	10	-	-
<u>Synedra sp.</u>	-	-	-	-	-	10	13
<u>Thalassionema</u>	-	-	-	-	40	-	-

Table 9 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20
Chlorophyta	150	-	50	60	50	30	39
<u>Chlamydomonas</u> sp.	-	-	-	-	-	-	13
<u>C. ballenyana</u>	130	-	20	50	20	10	26
<u>C. pulsatilla</u>	20	-	30	10	30	20	-
Chrysophyta	-	-	-	-	40	-	-
<u>Dinobryon</u> sp.	-	-	-	-	40	-	-
Euglenophyta	50	20	20	20	10	20	26
<u>Euglena</u> sp.	20	-	-	-	-	-	-
<u>E. acus</u>	-	10	10	-	-	-	-
<u>E. proxima</u>	-	-	10	20	-	-	-
<u>E. schmitzii</u>	30	10	-	-	10	20	26
Pyrrophyta	90	40	120	90	120	40	39
<u>Dinophysis</u> <u>artica</u>	-	-	-	10	-	-	-
<u>Goniaulax</u> sp.	20	-	-	50	-	-	-
<u>G. scrippsae</u>	40	20	60	20	100	30	39
<u>Gyrodinium</u> <u>lohmanni</u>	-	-	10	-	-	-	-
<u>Gyrodinium</u> <u>spirale</u>	10	-	-	-	20	-	-
<u>Peridinium</u> sp.	-	-	30	10	-	10	-
<u>Protoperidinium</u> <u>diabolum</u>	20	20	10	-	-	-	-
<u>P. punctulatum</u>	-	-	10	-	-	-	-

Table 10 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 2, September 4, 1985.

Sample depth (m)	0	1	3	5	10	20	30	40	47
Seawater temperature (°C)	2.5	1.8	1.7	1.7	1.7	1.6	1.5	1.5	1.4
Salinity (‰)	31.29	31.32	31.35	31.36	31.36	31.38	31.44	31.47	31.50
Total phytoplankton (cells/litre)	5,040	8,380	4,750	5,620	3,960	2,410	3,090	4,810	5,100
Bacillariophyta									
Centrales									
<i>Biddulphia aurita</i>	4,900	8,080	4,620	5,440	3,730	2,380	3,030	4,670	5,020
<i>Chaetoceros affinis</i>	4,500	2,710	3,420	3,450	3,390	2,290	2,550	3,050	2,990
<i>C. borealis</i>	190	220	390	250	150	50	340	200	50
<i>C. compressus</i>	10	-	-	-	-	-	-	-	-
<i>C. decipiens</i>	90	20	50	40	30	-	-	80	-
<i>C. diadema</i>	-	-	-	-	-	150	-	-	560
<i>C. furcellatus</i>	380	380	590	430	530	-	320	490	-
<i>C. sententrionalis</i>	2,000	1,100	1,950	1,540	1,430	2,010	1,410	1,290	1,530
<i>Coscinodiscus lacustris</i> var. <i>septentrionalis</i>	50	60	50	20	60	-	80	20	60
<i>Cyclotella</i> sp.	10	-	-	-	-	-	-	-	10
<i>Eucampia</i> sp.	-	-	20	-	-	-	-	-	-
<i>E. groenlandica</i>	-	10	-	-	-	-	10	-	-
<i>Leptocylindrus danicus</i>	70	-	-	-	-	-	-	-	10
<i>Rhizosolenia</i> sp.	10	10	-	-	-	-	-	-	-
<i>Thalassiosira</i> sp.	-	-	10	-	-	10	-	-	10
<i>T. decipiens</i>	1,630	900	340	1,170	1,150	70	350	970	730
<i>T. gravida</i>	60	-	20	-	40	-	30	-	20

Table 10 (cont'd)

Sample depth (m)	0	1	3	5	10	20	30	40	47
Pennales									
<i>Achnanthes taeniata</i>	400	5,370	1,200	1,990	340	90	480	1,620	2,030
<i>Amphora terroris</i>	-	-	-	-	10	-	-	10	-
<i>Cocconeis scutellum</i>	-	10	-	-	-	20	-	-	-
<i>C. scutellum</i> var. <i>parva</i>	-	-	-	-	-	10	-	-	10
<i>C. thumensis</i>	-	-	-	10	-	-	-	-	-
<i>Cylindrotheca closterium</i>	10	20	10	40	30	-	20	10	40
<i>Cymbella affinis</i>	-	-	-	-	-	-	-	-	10
<i>Diploneis</i> sp.	10	-	-	-	-	-	-	-	-
<i>Fragilaria</i> sp.	-	-	50	-	-	-	10	-	-
<i>F. bicapitata</i>	-	10	10	-	-	-	-	-	-
<i>F. pinnata</i>	20	10	-	20	-	10	-	10	20
<i>Gomphonema</i> sp.	-	-	-	-	-	-	10	-	-
<i>Grammatophora arctica</i>	-	-	-	-	-	-	-	10	-
<i>Licmophora</i> sp.	30	20	10	10	10	-	-	-	10
<i>Navicula</i> sp.	20	20	-	-	-	10	-	-	-
<i>N. directa</i>	-	-	-	-	10	-	-	-	-
<i>N. directa</i> var. <i>subtilis</i>	10	-	-	10	10	-	-	-	20
<i>N. granii</i>	10	220	10	-	-	-	100	-	420
<i>N. lineola</i>	10	-	10	20	-	-	-	10	-
<i>N. peregrina</i>	-	10	-	-	-	-	-	-	-
<i>N. transitans</i>	-	10	10	-	-	-	10	10	-
<i>N. transitans</i> var. <i>derasa</i>	-	-	-	-	-	-	-	10	-
<i>Nitzschia acicularis</i>	-	10	-	-	-	-	-	30	20
<i>N. cylindrus</i>	30	4,880	930	840	30	-	-	1,170	1,200
<i>N. delicatissima</i>	-	40	40	30	110	10	160	200	140
<i>N. grunowii</i>	140	30	80	110	90	20	70	120	120

Table 10 (cont'd)

Sample depth (m)	0	1	3	5	10	20	30	40	47
<u>N. linearis</u>	60	80	-	870	20	-	20	-	20
<u>N. seriata</u>	-	-	-	30	20	-	-	20	-
<u>Synedra sp.</u>	-	-	-	-	-	10	-	10	-
<u>Thalassionema nitzschioides</u>	50	-	40	-	-	-	-	-	-
Chlorophyta	50	110	40	90	100	30	20	60	50
<u>Ankistrodesmus sp.</u>	-	-	-	-	10	-	-	-	-
<u>Carteria vectensis</u>	-	-	-	20	10	-	-	20	10
<u>Chlamydomonas</u>	-	-	-	-	-	20	-	-	-
<u>C. ballenyana</u>	50	80	40	30	60	-	10	10	20
<u>C. pulsatilla</u>	-	30	-	40	20	10	10	30	20
Chrysophyta	-	30	10	10	30	-	-	30	-
<u>Dinobryon sp.</u>	-	10	10	10	10	-	-	-	-
<u>C. cylindricum</u>	-	10	-	-	-	-	-	30	-
<u>Mallomonas sp.</u>	-	10	-	-	10	-	-	-	-
<u>Salpingoeca natans</u>	-	-	-	-	10	-	-	-	-
Euglenophyta	10	-	20	10	20	-	10	20	10
<u>Euglena sp.</u>	-	-	-	-	20	-	-	-	-
<u>E. acus</u>	-	-	-	-	-	-	10	-	-
<u>E. proxima</u>	10	-	-	-	-	-	-	-	-
<u>E. schmitzii</u>	-	-	20	10	-	-	-	20	10

Table 10 (cont'd)

Sample depth (m)	0	1	3	5	10	20	30	40	47
<u>Pyrrophyta</u>									
<u>Dinophysis arctica</u>	80	160	60	70	80	-	30	30	20
<u>Goniulax sp.</u>	10	10	-	-	-	-	20	-	-
<u>G. monilata</u>	-	10	-	-	-	-	-	-	-
<u>G. scrippsae</u>	-	-	-	-	-	-	-	20	-
<u>Gymnodinium sp.</u>	10	80	50	50	60	-	-	-	10
<u>Peridinium sp.</u>	30	40	-	-	-	-	-	-	-
<u>P. minusculum</u>	10	-	-	10	20	-	-	-	-
<u>Prorocentrum sp.</u>	-	-	-	-	-	-	-	10	-
<u>Protoperidinium diabolus</u>	-	10	-	-	-	-	-	-	-
<u>P. punctulatum</u>	20	-	10	10	-	-	10	-	10
	-	10	-	-	-	-	-	-	-

Table 11 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 4, September 4, 1985.

Sample depth (m)	0	1	3	5	7	10	20	30	40	45
Seawater temperature (°C)	2.6	2.1	2.1	2.1	2.1	2.0	1.7	1.6	1.7	0.6
Salinity (‰)	31.22	31.28	31.28	31.37	31.29	31.31	31.37	31.39	31.41	31.48
Total phytoplankton (cells/litre)	3,620	5,610	2,750	3,570	2,717	7,250	3,920	6,950	7,250	4,960
<i>Bacillariophyta</i>	3,380	5,200	2,570	3,410	2,470	6,890	3,740	6,700	7,060	4,850
<i>Centrales</i>	2,440	3,680	1,820	2,480	2,275	3,400	3,330	4,510	2,900	2,790
<i>Biddulphia</i> sp.	10	-	-	-	-	-	10	-	-	-
<i>B. aurita</i>	-	20	10	-	-	-	-	-	-	10
<i>Chaetoceros affinis</i>	90	200	30	150	52	180	210	160	20	290
<i>C. borealis</i>	-	-	-	-	-	-	10	30	-	-
<i>C. compressus</i>	80	190	120	-	-	60	80	60	-	50
<i>C. diadema</i>	680	490	460	380	286	640	800	890	660	320
<i>C. furcellatus</i>	650	1,050	450	910	728	980	1,530	1,040	1,480	1,520
<i>C. septentrionalis</i>	10	20	-	30	39	10	20	-	20	-
<i>Coscinodiscus centralis</i>	-	10	-	-	13	-	-	-	-	-
<i>C. lacustris</i> var. <i>septentrionalis</i>	-	-	-	-	-	10	-	-	-	-
<i>Cyclotella</i> sp.	-	-	-	-	-	10	-	-	-	-
<i>Eucampia</i> sp.	-	-	-	-	-	-	-	10	-	-
<i>Leptocylindrus danicus</i>	80	60	-	-	-	-	50	80	-	20
<i>Rhizosolenia</i> sp.	-	-	-	20	13	-	-	40	-	20
<i>Thalassiosira</i> sp.	-	10	-	10	-	-	-	-	-	-
<i>I. decipiens</i>	840	1,540	580	920	1,092	1,490	570	2,170	680	550
<i>I. gravida</i>	-	90	170	60	52	20	50	30	40	10

Table 11 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	45
<u>Pennales</u>										
<u>Amphora ineleqans</u>	940	1,520	750	930	195	3,490	410	2,190	4,160	2,060
<u>A. terroris</u>	-	-	-	-	-	-	-	-	20	-
<u>Cocconeis scutellum</u>	20	10	40	-	-	-	10	-	-	-
<u>C. thumensis</u>	-	-	-	-	-	10	-	-	10	-
<u>Cylindrotheca closterium</u>	10	-	-	20	13	30	30	40	20	20
<u>Cymbella affinis</u>	-	-	-	20	-	-	-	-	-	-
<u>Diploneis sp.</u>	-	-	10	-	-	-	-	-	-	-
<u>Fragilaria sp.</u>	-	-	-	-	-	-	10	10	10	-
<u>F. pinnata</u>	-	-	-	20	26	-	-	10	-	30
<u>Gomphonema sp.</u>	-	-	20	-	-	10	-	-	-	-
<u>Limnophora sp.</u>	-	30	-	10	13	40	-	10	10	10
<u>Navicula sp.</u>	-	-	-	10	-	-	-	-	-	-
<u>N. directa</u>	-	20	-	10	-	-	10	-	-	-
<u>N. directa var. subtilis</u>	-	-	-	10	-	10	-	-	-	-
<u>N. granii</u>	-	-	-	10	26	10	-	20	40	20
<u>N. peregrina</u>	-	-	-	-	-	10	10	-	-	-
<u>N. transitans</u>	20	-	-	-	-	30	30	10	20	-
<u>N. transitans var. derasa</u>	10	-	-	-	-	-	-	-	-	-
<u>N. valida</u>	-	-	-	-	-	10	-	-	-	-
<u>N. vanhoeffenii</u>	-	-	-	-	-	-	-	-	10	10
<u>Nitzschia acicularis</u>	10	-	-	-	-	-	-	-	10	-
<u>N. cylindrus</u>	770	1,260	570	760	78	3,040	30	1,850	3,870	1,770
<u>N. delicatissima</u>	-	10	20	-	-	90	160	70	-	70

Table 11 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	45
<u>N. frigida</u>	-	-	-	-	-	-	-	100	10	-
<u>N. grunowii</u>	10	100	50	50	26	50	70	50	120	80
<u>N. linearis</u>	30	20	30	20	-	-	10	10	-	20
<u>N. seriata</u>	30	-	-	-	-	120	-	-	-	-
<u>Synedra</u> sp.	30	30	10	-	-	20	30	-	-	10
<u>Tabellaria flocculosa</u>	-	-	-	-	-	-	-	10	-	10
<u>Thalassionema</u> sp.	-	40	-	-	13	-	10	-	10	10
<u>T. nitzschoides</u>	-	-	-	-	-	20	-	-	-	-
 Chlorophyta	120	200	50	60	91	130	100	90	60	30
<u>Carteria vectensis</u>	-	10	-	-	-	-	-	20	10	-
<u>Chlamydomonas ballenyana</u>	40	100	50	40	52	40	60	20	20	30
<u>C. pulsatilla</u>	80	90	-	20	39	90	40	50	30	-
 Chrysophyta	-	70	20	-	52	30	-	-	20	-
<u>Dinobryon</u> sp.	-	60	20	-	52	30	-	-	-	-
<u>D. balticum</u>	-	10	-	-	-	-	-	-	-	-
<u>C. cylindricum</u>	-	-	-	-	-	-	-	-	10	-
<u>Mallomonas</u> sp.	-	-	-	-	-	-	-	-	10	-
 Euglenophyta	-	-	10	-	26	50	10	20	20	20
<u>Euglena proxima</u>	-	-	10	-	-	20	-	10	-	-
<u>E. schmitzii</u>	-	-	-	-	26	10	10	10	20	20
<u>E. viridis</u>	-	-	-	-	-	20	-	-	-	-

Table 11 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	45
<u>Pyrrophyta</u>	120	140	100	100	78	150	70	140	90	60
<u>Dinophysis arctica</u>	-	20	-	20	13	-	-	10	10	-
<u>Goniaulax sp.</u>	10	10	-	10	-	-	-	10	20	-
<u>G. monilata</u>	-	20	30	-	-	-	-	-	10	-
<u>G. scrippsae</u>	50	20	20	30	13	80	20	30	-	30
<u>Gymnodinium sp.</u>	-	50	30	20	-	-	20	30	-	-
<u>Gyrodinium spirale</u>	20	10	10	-	-	10	30	20	30	20
<u>Oxytoxum sp.</u>	10	-	-	-	-	-	-	-	-	-
<u>Peridinium sp.</u>	-	-	-	-	26	30	-	30	-	-
<u>Prorocentrum sp.</u>	-	-	-	-	-	-	-	10	-	10
<u>Protoperidinium diabolum</u>	10	-	-	20	26	20	-	-	10	-
<u>P. punctulatum</u>	20	10	-	-	-	10	-	-	10	-

Table 12 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 4, September 21, 1985.

Sample depth (m)	0	1	3	5	7	10	20	30	40
Seawater temperature (°C)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Salinity (‰)	31.29	31.28	31.29	31.29	31.30	31.29	31.30	31.29	31.46
Total phytoplankton (cells/litre)	1,180	690	690	720	4,450	1,370	1,160	1,130	2,480
<i>Bacillariophyta</i>									
Centrales	1,130	630	640	660	1,240	1,320	1,110	1,070	2,310
<i>Biddulphia aurita</i>	800	440	510	630	1,190	810	1,040	1,020	1,640
<i>Chaetoceros</i> sp.	-	-	-	-	20	40	-	-	-
<i>C. affinis</i>	-	30	-	-	-	-	-	-	-
<i>C. borealis</i>	-	-	-	10	40	180	90	10	40
<i>C. decipiens</i>	-	-	-	-	-	20	-	-	-
<i>C. diadema</i>	170	-	290	-	50	-	120	180	280
<i>C. furcellatus</i>	-	140	-	10	-	-	-	10	-
<i>C. septentrionalis</i>	520	210	100	520	980	430	800	800	1,260
<i>Coscinodiscus centralis</i>	-	-	-	-	-	40	-	20	-
<i>Leptocylindrus danicus</i>	-	-	-	-	10	-	-	-	-
<i>Melosira</i> sp.	30	60	-	-	-	-	-	-	-
<i>M. arctica</i>	-	-	-	-	20	-	-	-	-
<i>Thalassiosira</i> sp.	-	-	10	-	-	-	-	-	-
<i>T. decipiens</i>	-	-	-	-	20	30	-	-	-
<i>T. gravida</i>	80	-	100	90	50	-	30	-	60
<i>T. nordenskiöldii</i>	-	-	10	-	-	-	-	-	-
	-	-	-	-	-	70	-	-	-

Table 12 (cont'd)

[illegible]

Table 12 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40
Chlorophyta									
<u>Chlamydomonas</u> sp.	10	-	30	40	3,170	50	30	30	130
<u>C. balleniana</u>	-	-	-	10	-	20	-	-	-
<u>C. pulsatilla</u>	-	-	20	-	3,160	30	30	20	70
	10	-	10	30	10	-	-	10	60
Chrysophyta									
<u>Dinobryon</u> sp.	-	30	-	-	-	-	-	-	-
	-	30	-	-	-	-	-	-	-
Euglenophyta									
<u>Euglena</u> sp.	-	-	-	-	10	-	-	-	-
	-	-	-	-	10	-	-	-	-
Pyrrophyta									
<u>Dinophysis arctica</u>	40	30	20	20	20	-	20	30	40
<u>Goniolax</u> sp.	-	-	-	-	10	-	10	-	-
<u>G. scrippsae</u>	10	-	-	-	-	-	-	-	-
<u>Gymnodinium</u> sp.	-	20	-	-	-	-	-	-	-
<u>Gyrodinium spirale</u>	20	-	10	10	-	-	-	10	-
<u>Oxytoxum</u> sp.	10	-	10	-	-	-	10	-	30
<u>Peridinium</u> sp.	-	-	-	-	-	-	-	-	10
<u>P. minusculum</u>	-	-	-	10	-	-	-	-	-
<u>Prorocentrum</u> sp.	-	10	-	-	10	-	-	-	-
<u>Protopteridinium diabolum</u>	-	-	-	-	-	-	-	20	-
Unidentified algal spore	-	-	-	-	10	-	-	-	-

Table 13 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 2, September 21, 1985.

Sample depth (m)	0	1	3	5	7	10	20	30	40	47
Seawater temperature (°C)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Salinity (‰)	31.30	31.30	31.29	31.30	31.30	31.30	31.35	31.35	31.38	31.37
Total phytoplankton (cells/litre)	820	2,770	1,510	1,030	440	600	820	900	1,380	580
Bacillariophyta										
Centrales	700	2,640	1,330	930	350	470	720	850	1,340	500
<i>Biddulphia aurita</i>	530	670	800	760	310	390	420	780	680	430
<i>Chaetoceros affinis</i>	10	-	60	-	-	-	-	-	-	-
<i>C. borealis</i>	70	-	180	-	10	-	10	20	20	10
<i>C. decipiens</i>	-	-	50	-	-	-	-	-	-	-
<i>C. diadema</i>	40	60	-	50	10	-	10	40	310	20
<i>C. furcellatus</i>	-	-	20	-	-	30	20	10	10	-
<i>Coscinodiscus</i> sp.	370	580	170	640	290	260	370	530	230	370
<i>Melosira arctica</i>	-	-	-	-	-	-	10	10	-	-
<i>Thalassiosira</i> sp.	-	-	-	-	-	-	-	-	20	-
<i>I. decipiens</i>	-	-	40	10	-	-	-	-	-	-
<i>I. gravida</i>	40	30	280	60	-	100	-	170	80	30
Pennales										
<i>Amphora inelegans</i>	170	1,970	530	170	40	80	300	70	660	70
<i>A. terroris</i>	20	-	-	-	-	-	-	-	-	-
<i>Cocconeis scutellum</i>	-	-	30	10	-	20	-	10	30	-
<i>C. thumensis</i>	-	10	-	-	-	-	-	-	20	10
<i>Cylindrotheca closterium</i>	-	10	10	20	-	20	10	-	20	-

Table 13 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	47
<i>Eunotia</i> sp.	-	-	-	10	-	-	-	-	-	-
<i>Fragilaria</i> sp.	-	40	-	10	-	-	-	-	20	-
<i>F. pinnata</i>	20	-	-	10	-	-	-	20	-	-
<i>Gomphonema</i> sp.	-	-	-	-	-	-	10	10	-	-
<i>Gyrosigma fasciola</i>	-	-	-	-	-	-	-	-	10	-
<i>Licmophora</i> sp.	10	10	-	-	-	-	-	-	-	-
<i>Navicula</i> sp.	-	-	-	-	-	-	-	-	10	-
<i>N. debilissima</i>	10	-	-	-	-	-	-	-	-	-
<i>N. directa</i> var. <i>subtilis</i>	10	-	-	-	-	-	-	-	10	-
<i>N. peregrina</i>	-	-	-	-	-	-	-	-	100	-
<i>N. transitans</i>	-	20	-	-	-	-	-	-	-	-
<i>Nitzschia</i> sp.	-	-	20	-	-	-	-	-	-	-
<i>N. cylindrus</i>	10	670	190	20	10	-	270	-	-	10
<i>N. frigida</i>	-	-	-	-	-	10	-	-	-	-
<i>N. grunowii</i>	20	1,190	240	50	30	-	-	30	440	-
<i>N. linearis</i>	70	-	-	-	-	-	-	-	-	-
<i>N. seriata</i>	-	-	-	-	-	-	-	-	-	50
<i>Pinnularis quadrata</i>	-	-	40	-	-	-	-	-	-	-
<i>Synedra</i> sp.	-	20	-	40	-	10	-	-	-	-
<i>Thalassionema nitzschioides</i>	-	-	-	-	-	-	10	-	-	-
Chlorophyta	70	30	-	50	70	50	40	20	20	40
<i>Chlamydomonas ballenyanii</i>	30	30	-	40	40	30	20	10	-	30
<i>C. pulsatilla</i>	40	-	-	10	30	20	20	10	20	10

Table 13 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	47
Chrysophyta										
<u>Dinobryon balticum</u>	-	10	130	-	-	-	-	-	-	-
<u>D. cylindricum</u>	-	-	50	-	-	-	-	-	-	-
<u>Salpingoeca natans</u>	-	-	80	-	-	-	-	-	-	-
Euglenophyta										
<u>Euglena sp.</u>	10	30	-	10	-	-	10	-	-	-
<u>E. proxima</u>	10	-	-	-	-	-	-	-	-	-
<u>E. schmitzii</u>	-	30	-	10	-	-	-	-	-	-
	-	-	-	-	-	-	10	-	-	-
Pyrrophyta										
<u>Dinophysis arctica</u>	40	40	50	40	10	80	50	30	20	40
<u>Goniaulax sp.</u>	-	-	-	10	-	10	20	10	10	-
<u>G. monilata</u>	-	10	-	-	-	-	-	-	-	-
<u>G. scrippsae</u>	-	-	-	10	-	10	-	-	-	-
<u>Gymnodinium sp.</u>	-	-	-	20	-	10	-	-	-	-
<u>G. lohmanni</u>	30	20	-	-	-	-	10	10	10	-
<u>Gyrodinium spirale</u>	-	-	-	-	-	10	-	-	-	10
<u>Peridinium sp.</u>	10	-	-	-	-	20	-	-	-	10
<u>Protoperidinium punctulatum</u>	-	10	10	-	10	20	-	-	-	-
	-	-	40	-	-	-	20	10	-	20
Unidentified algal spore	-	20	-	-	10	-	-	-	-	-

Table 14 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 5, September 21, 1985.

Sample depth (m)	0	1	3	5	7	10	20
Seawater temperature (°C)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Salinity (‰)	31.32	31.31	31.31	31.32	31.33	31.33	31.34
Total phytoplankton (cells/litre)	1,160	1,350	1,240	840	580	2,680	1,870
<i>Bacillariophyta</i>							
<i>Centrales</i>	1,090	1,290	1,050	800	500	2,530	1,790
<i>Biddulphia aurita</i>	910	1,200	800	600	350	950	240
<i>Chaetoceros affinis</i>	-	30	-	10	-	-	-
<i>C. borealis</i>	10	190	90	190	10	20	30
<i>C. decipiens</i>	-	70	30	50	-	-	-
<i>C. diadema</i>	50	90	130	310	10	90	40
<i>C. furcellatus</i>	-	-	-	-	10	20	-
<i>C. septentrionalis</i>	820	500	280	-	310	760	170
<i>Leptocylindrus danicus</i>	-	100	-	-	-	-	-
<i>Rhizosolenia</i>	-	-	70	-	-	-	-
<i>Thalassiosira</i> sp.	30	-	-	-	-	-	-
<i>I. decipiens</i>	-	40	20	40	-	-	-
<i>I. nordenskiöldii</i>	-	180	-	-	10	60	-
<i>Pennales</i>	-	-	180	-	-	-	-
<i>Amphiprora</i> sp.	180	90	250	200	150	1,580	1,550
<i>Cocconeis scutellum</i>	-	-	-	-	-	-	20
<i>Cocconeis scutellum</i>	10	-	30	50	-	-	-

Table 14 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20
<u>C. thumensis</u>	-	-	-	-	-	20	10
<u>Cylindrotheca closterium</u>	-	30	-	20	-	-	10
<u>Fragilaria</u> sp.	-	20	-	-	-	-	-
<u>F. pinnata</u>	10	-	-	80	10	-	10
<u>Gomphonema</u> sp.	10	-	-	-	-	-	-
<u>G. exiguum</u>	-	-	-	-	-	-	20
<u>Gyrosigma fasciola</u>	-	-	-	40	10	-	-
<u>Limnophora</u> sp.	-	-	-	-	-	10	30
<u>Navicula</u> sp.	-	10	10	10	-	10	-
<u>N. debilissima</u>	-	30	-	-	-	10	-
<u>N. directa</u>	-	-	-	-	-	10	-
<u>N. directa</u> var. <u>subtilis</u>	-	-	-	-	-	10	-
<u>N. transitans</u> var. <u>derasa</u>	-	-	-	-	30	40	-
<u>Nitzschia cylindrus</u>	100	-	40	-	-	-	-
<u>N. delicatissima</u>	-	-	130	-	60	220	1,380
<u>N. grunowii</u>	-	-	-	-	40	-	-
<u>N. linearis</u>	10	-	40	-	-	1,170	-
<u>N. seriata</u>	40	-	-	-	-	70	-
<u>Pinnularis quadratarea</u>	-	-	-	-	-	-	20
<u>Synedra</u> sp.	-	-	-	-	-	20	10
Chlorophyta							
<u>Chlamydomonas</u> sp.	40	50	130	40	60	70	50
<u>C. ballenyana</u>	-	-	-	30	-	-	-
<u>C. pulsatilla</u>	-	10	30	-	30	-	40
	40	40	100	10	30	70	10

Table 14 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20
Chrysophyta							
<u>Dinobryon sp.</u>	-	10	-	-	-	-	-
	-	10	-	-	-	-	-
Euglenophyta							
<u>Euglena schmitzii</u>	-	-	-	-	-	-	10
	-	-	-	-	-	-	10
Pyrrophyta							
<u>Goniaulax sp.</u>	10	-	60	-	20	80	20
<u>G. monilata</u>	-	-	20	-	-	-	-
<u>G. scrippsae</u>	10	-	-	-	-	10	-
<u>Gymnodinium lohmanni</u>	-	-	10	-	-	-	-
<u>Gyrodinium spirale</u>	-	-	30	-	-	40	-
<u>Oxytoxum sp.</u>	-	-	-	-	-	-	10
<u>Peridinium sp.</u>	-	-	-	-	-	-	10
<u>Protoperidinium punctulatum</u>	-	-	-	-	-	30	-
	-	-	-	-	20	-	-
Unidentified algal spore	30	-	-	-	-	-	-

Table 15 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Indaga Bay at station 2, October 8, 1985.

Sample depth (m)	0	1	3	5	7	10	30	40	46
Seawater temperature (°C)	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.7	1.7
Salinity (o/oo)	31.23	31.24	31.27	31.28	31.28	31.28	31.28	31.28	31.28
Total phytoplankton (cells/litre)	780	860	490	820	850	390	1,110	1,460	730
Bacillariophyta									
Centrales									
<i>Biddulphia aurita</i>	650	810	410	820	810	310	880	1,420	660
<i>Chaetoceros</i> sp.	420	620	390	620	660	390	650	100	620
<i>C. affinis</i>	-	-	-	-	-	-	20	50	-
<i>C. borealis</i>	80	-	-	50	20	-	50	280	150
<i>C. decipiens</i>	20	60	-	-	-	-	-	-	-
<i>C. diadema</i>	-	20	-	60	100	80	160	-	60
<i>C. furcellatus</i>	30	-	-	-	-	-	-	-	-
<i>C. septentrionalis</i>	250	180	320	520	240	190	-	10	-
<i>Leptocylindrus danicus</i>	-	90	-	-	-	-	220	200	680
<i>Thalassiosira</i> sp.	-	10	-	-	-	-	-	-	-
<i>T. decipiens</i>	40	-	-	-	-	-	20	-	-
<i>T. nordenskiöldii</i>	-	260	10	10	-	10	20	-	20
Pennales									
<i>Amphiprora terroris</i>	220	180	20	50	260	20	260	640	80
<i>Cocconeis scutellum</i>	-	-	-	-	-	-	-	20	-
<i>Cylindrotheca closterium</i>	-	-	20	10	20	10	90	10	-

Table 15 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	46
<u>Diploneis litoralis</u>	-	-	10	-	-	-	-	-	-	-
<u>Fragilaria sp.</u>	-	-	-	10	-	-	-	-	-	-
<u>F. pinnata</u>	-	70	-	10	-	-	-	-	-	-
<u>Gyrodigma fasciola</u>	40	-	-	-	-	-	-	-	-	-
<u>Licmophora sp.</u>	-	-	-	-	-	-	-	-	10	-
<u>Navicula sp.</u>	-	-	-	10	-	-	-	30	-	30
<u>N. directa</u>	30	20	-	-	-	-	-	-	-	-
<u>N. directa var. subtilis</u>	90	50	-	-	-	-	-	-	-	-
<u>Nitzschia sp.</u>	-	40	-	-	-	-	10	-	-	-
<u>N. delicatissima</u>	70	-	-	-	-	-	100	-	-	-
<u>N. grunowii</u>	-	-	-	10	280	10	-	180	610	-
<u>N. linearis</u>	-	-	-	-	40	-	-	-	-	-
<u>Pinnularis sp.</u>	-	-	-	-	-	-	-	-	-	10
Chlorophyta	70	50	50	70	20	30	100	110	30	50
<u>Chlamydomonas sp.</u>	-	10	-	-	-	-	-	-	-	40
<u>C. ballenyana</u>	40	40	-	30	-	10	20	30	30	-
<u>C. pulsatilla</u>	30	-	50	40	20	20	80	80	-	10
Euglenophyta	-	-	-	10	-	-	-	50	-	-
<u>Euglena sp.</u>	-	-	-	10	-	-	-	50	-	-

Table 15 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	46
<i>Pyrrophyta</i>	70	-	30	70	20	50	110	-	-	20
<i>Dinophysis arctica</i>	-	-	30	-	10	-	-	-	-	-
<i>Goniaulax scrippsae</i>	-	-	-	40	-	10	-	-	-	-
<i>Gymnodinium</i> sp.	-	-	-	-	-	10	40	-	-	-
<i>G. lohmanni</i>	-	-	-	-	-	20	30	-	-	-
<i>Peridinium</i> sp.	10	-	-	30	10	-	10	-	-	10
<i>P. minusculum</i>	-	-	-	-	-	10	-	-	-	10
<i>Protoperidinium diabolum</i>	10	-	-	-	-	-	30	-	-	-
<i>P. punctulatum</i>	50	-	-	-	-	-	-	-	-	-

Table 16 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 5, October 10, 1985.

Sample depth (m)	0	1	3	5	7	10	20
Seawater temperature (°C)	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Salinity (o/oo)	31.17	31.17	31.17	31.17	31.17	31.17	31.19
Total phytoplankton (cells/litre)	930	830	1,120	690	980	920	1,310
Bacillariophyta							
Centrales	830	790	1,040	610	880	800	1,160
<u>Biddulphia</u> sp.	700	620	810	420	710	580	1,030
<u>Chaetoceros</u> sp.	-	-	-	-	-	20	-
<u>C. affinis</u>	-	20	-	-	-	30	-
<u>C. decipiens</u>	50	20	-	60	120	-	30
<u>C. diadema</u>	40	30	-	30	-	80	50
<u>C. furcellatus</u>	30	40	70	-	20	-	-
<u>C. septentrionalis</u>	560	440	540	250	460	360	810
<u>Eucampia</u> sp.	-	-	40	-	-	40	-
<u>Thalassiosira</u> sp.	-	-	-	-	10	-	-
<u>I. decipiens</u>	20	70	20	-	-	50	-
<u>I. nordenskiöldii</u>	-	-	-	80	100	-	140
	-	-	140	-	-	-	-
Pennales							
<u>Cocconeis scutellum</u>	130	170	230	190	170	220	130
<u>C. scutellum</u> var. <u>parva</u>	-	40	-	-	-	20	-
<u>Cylindrotheca closterium</u>	-	-	20	-	-	-	-
<u>Gyrodinium aureolum</u>	-	20	50	-	-	50	30
<u>Gyrodinium aureolum</u>	-	-	-	-	-	-	20

Table 16 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20
<u>Licmophora</u> sp.	-	-	-	-	30	-	50
<u>Navicula</u> sp.	-	30	30	50	-	-	-
<u>N. debilissima</u>	-	10	-	-	-	-	-
<u>N. directa</u>	-	-	80	-	40	-	-
<u>N. directa</u> var. <u>subtilis</u>	-	-	-	-	-	80	-
<u>N. transitans</u> var. <u>derasa</u>	-	50	-	-	10	-	-
<u>Nitzschia</u> sp.	-	20	-	-	-	-	-
<u>N. cylindrus</u>	70	-	-	-	-	-	-
<u>N. delicatissima</u>	-	-	50	-	-	40	30
<u>N. frigida</u>	-	-	-	-	70	-	-
<u>N. grunowii</u>	30	-	-	110	-	30	-
<u>N. linearis</u>	10	-	-	30	-	-	-
<u>Pinnularis quadratarea</u>	20	-	-	-	-	-	-
<u>Thalassionema</u> sp.	-	-	-	-	20	-	-
Chlorophyta							
<u>Chlamydomonas</u> sp.	80	-	-	70	90	50	130
<u>C. ballenyana</u>	80	-	-	-	30	10	-
<u>C. pulsatilla</u>	-	-	-	70	60	40	30
				-	-	-	100
Chrysophyta							
<u>Dinobryon</u> sp.	-	-	30	-	-	-	-
	-	-	30	-	-	-	-
Euglenophyta							
<u>Euglena proxima</u>	-	10	-	-	-	-	20
	-	10	-	-	-	-	20

Table 16 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20
Pyrrophyta	20	30	50	10	10	70	-
<u>Goniaulax</u> sp.	20	-	-	10	-	-	-
<u>G. monilata</u>	-	-	50	-	-	-	-
<u>Peridinium</u> sp.	-	-	-	-	10	20	-
<u>Protoperidinium diabolus</u>	-	30	-	-	-	50	-

Table 17 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 4, October 14, 1985.

Sample depth (m)	0	1	3	5	7	10	20	30	40	45
Seawater temperature (°C)	1.8	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.1	0.9
Salinity (‰)	31.07	31.08	31.09	31.15	31.14	31.16	31.17	31.26	31.79	31.98
Total phytoplankton (cells/litre)	1,050	650	1,000	1,070	1,640	880	900	1,010	630	1,160
Bacillariophyta	1,000	540	960	1,040	1,570	850	850	950	520	1,040
Centrales	880	410	730	770	1,270	650	720	660	400	830
Biddulphia aurita	-	-	30	-	-	-	30	-	-	-
Chaetoceros affinis	60	-	40	140	-	140	140	110	50	130
C. decipiens	190	40	100	40	170	90	240	50	-	50
C. diadema	-	-	10	-	30	-	-	-	30	30
C. furcellatus	570	220	370	430	570	400	270	480	290	430
C. septentrionalis	30	20	-	-	20	-	-	-	-	-
Eucampia sp.	10	-	-	-	-	-	-	-	-	-
Leptocylindrus danicus	-	-	-	-	-	20	-	-	-	-
Thalassiosira sp.	20	20	30	-	-	-	40	20	30	-
I. decipiens	-	110	150	160	480	-	-	-	-	190
Pennales	120	130	230	270	300	200	130	290	120	210
Cocconeis scutellum	-	10	20	70	-	30	20	100	-	-
Cylindrotheca closterium	40	10	-	-	30	50	10	80	20	20
Fragilaria sp.	10	-	10	10	-	-	-	-	10	-
F. bicapitata	30	-	-	20	-	-	-	-	-	-
F. pinnata	-	-	-	-	-	-	-	40	-	10

Table 17 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	45
<u>Navicula</u> sp.	10	10	10	-	10	30	-	30	-	30
<u>N. debilissima</u>	-	30	-	-	-	50	20	-	-	50
<u>N. directa</u>	-	-	-	-	-	-	-	-	50	100
<u>N. transitans</u> var. <u>derasa</u>	-	-	30	20	-	-	10	-	-	-
<u>Nitzschia</u> sp.	-	-	-	10	-	-	-	-	30	-
<u>N. delicatissima</u>	30	30	20	-	40	-	40	40	-	-
<u>N. grunowii</u>	-	-	130	130	180	-	-	-	-	-
<u>N. linearis</u>	-	40	10	-	-	40	-	-	10	-
<u>N. seriata</u>	-	-	-	-	50	-	30	-	-	-
<u>Pinnularis</u> sp.	-	-	-	10	-	-	-	-	-	-
<u>Chlorophyta</u>	50	100	10	-	10	30	-	-	110	110
<u>Carteria vectensis</u>	-	-	-	-	-	20	-	-	-	-
<u>Chlamydomonas</u> sp.	-	-	-	-	10	10	-	-	30	-
<u>C. bal'enyana</u>	30	70	10	-	-	-	-	-	80	80
<u>C. pulsatilla</u>	20	30	-	-	-	-	-	-	-	30
<u>Chrysophyta</u>	-	-	30	30	-	-	-	-	-	-
<u>Dinobryon balticum</u>	-	-	30	20	-	-	-	-	-	-
<u>D. cylindricum</u>	-	-	-	10	-	-	-	-	-	-
<u>Euglenophyta</u>	-	10	-	-	-	-	-	20	-	10
<u>Euglena</u> sp.	-	-	-	-	-	-	-	20	-	10
<u>E. proxima</u>	-	10	-	-	-	-	-	-	-	-
<u>Pyrrophyta</u>	-	-	-	-	60	-	50	40	-	-
<u>Oxytoxum</u> sp.	-	-	-	-	20	-	-	-	-	-
<u>Peridinium</u> sp.	-	-	-	-	10	-	30	-	-	-
<u>Protoperidinium punctulatum</u>	-	-	-	-	30	-	20	40	-	-

Table 18 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 2, October 19, 1985.

Sample depth (m)	0	1	3	5	7	10	20	30	40	47
Seawater temperature (°C)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Salinity (‰)	31.23	31.23	31.23	31.24	31.23	31.25	31.31	31.31	31.31	31.29
Total phytoplankton (cells/litre)	580	600	1,490	1,110	700	750	1,330	1,540	1,060	720
Bacillariophyta										
Centrales	510	470	1,310	960	650	550	1,240	1,470	1,010	650
<i>Biddulphia aurita</i>	390	420	1,240	860	630	510	1,110	1,390	870	550
<i>Chaetoceros affinis</i>	40	10	60	-	20	10	40	30	90	-
<i>C. decipiens</i>	-	-	140	-	10	-	20	60	40	-
<i>C. diadema</i>	10	-	-	-	-	-	-	-	30	40
<i>C. furcellatus</i>	320	410	1,030	810	580	440	1,020	1,270	400	480
<i>C. septentrionalis</i>	-	-	-	10	-	-	-	-	20	20
<i>Coscinodiscus</i> sp.	10	-	-	10	-	-	10	-	-	-
<i>C. centralis</i>	-	-	-	-	-	20	-	-	-	-
<i>Rhizosolenia</i> sp.	10	-	-	-	-	-	-	-	-	-
<i>Thalassiosira</i> sp.	-	-	10	20	-	-	-	20	50	10
<i>T. decipiens</i>	-	-	-	-	20	40	20	10	240	-
Pennales										
<i>Amphiprora</i> sp.	120	50	70	100	20	40	130	80	140	100
<i>Amphora terroris</i>	-	-	-	-	-	-	-	10	-	10
<i>Cocconeis scutellum</i>	-	-	-	-	-	-	20	20	-	-
	-	-	-	-	-	-	-	-	20	10

Table 18 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	47
<u>C. thumensis</u>	-	-	-	-	-	10	-	-	-	-
<u>Cylindrotheca closterium</u>	20	10	-	-	-	-	10	20	40	10
<u>Fragilaria</u> sp.	40	-	-	10	-	-	-	-	-	10
<u>F. bicapitata</u>	-	-	-	10	-	-	-	-	-	-
<u>F. pinnata</u>	-	10	-	20	10	10	-	-	-	30
<u>Gomphonema</u> sp.	-	-	-	-	10	-	-	-	-	-
<u>Limnophora</u> sp.	10	-	-	-	-	-	-	-	-	-
<u>Navicula</u> sp.	-	-	-	-	-	-	10	10	10	-
<u>N. directa</u>	-	-	-	-	-	-	-	-	40	-
<u>N. directa</u> var. <u>subtilis</u>	-	-	-	-	-	-	-	-	20	-
<u>N. transitans</u>	20	10	-	-	-	-	-	-	-	-
<u>N. transitans</u> var. <u>derasa</u>	-	-	10	-	-	-	-	-	-	-
<u>Nitzschia acicularis</u>	-	-	-	-	-	10	-	-	-	-
<u>N. cylindrus</u>	-	-	10	50	-	-	40	-	-	30
<u>N. frigida</u>	-	-	50	-	-	-	-	-	-	-
<u>N. grunowii</u>	-	-	-	10	-	-	20	-	-	-
<u>N. linearis</u>	-	-	-	-	-	-	-	-	10	-
<u>Syneura</u> sp.	-	10	-	-	-	-	-	10	-	-
<u>S. tabulata</u>	-	-	-	-	-	-	-	10	-	-
<u>Tabellaria</u> sp.	-	10	-	-	-	-	-	-	-	-
<u>Thalassionema nitzschioides</u>	30	-	-	-	-	10	30	-	-	-

Table 18 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20	30	40	47
Chlorophyta	60	90	160	90	20	130	60	50	50	40
Chlamydomonas sp.	-	-	30	40	-	-	50	30	10	-
C. ballenyana	60	70	100	40	20	130	10	10	30	40
C. pulsatilla	-	20	30	10	-	-	-	10	10	-
Euglenophyta	-	-	20	-	10	10	10	10	-	-
Euglena sp.	-	-	-	-	10	-	-	10	-	-
E. proxima	-	-	10	-	-	-	10	-	-	-
E. schmitzii	-	-	10	-	-	10	-	-	-	-
Pyrrophyta	10	30	-	60	20	60	20	-	-	20
Goniolax sp.	-	-	-	-	10	-	-	-	-	-
G. cyst	-	-	-	10	-	-	-	-	-	-
G. monilata	-	-	-	-	-	10	-	-	-	10
G. scrippsae	-	-	-	-	-	10	10	-	-	-
Gymnodinium sp.	10	10	-	10	-	-	-	-	-	-
G. lohmanni	-	10	-	40	-	40	-	-	-	-
Gyrodinium spirale	-	10	-	-	10	-	-	-	-	-
Peridinium sp.	-	-	-	-	-	-	10	-	-	-
Protoperidinium punctulatum	-	-	-	-	-	-	-	-	-	10
Unidentified algal spore	-	10	-	-	-	-	-	10	-	10

Table 19 Seawater temperature, salinity, quantitative composition and vertical distribution of phytoplankton in northeastern Ungava Bay at station 5, October 29, 1985.

Sample depth (m)	0	1	3	5	7	10	20
Seawater temperature (°C)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Salinity (‰)	30.94	30.87	30.87	30.88	30.87	30.88	30.93
Total phytoplankton (cells/litre)	1,090	700	1,010	680	820	730	1,500
Bacillariophyta							
Centrales	1,020	680	660	470	670	690	1,250
<u>Biddulphia aurita</u>	930	600	570	310	580	590	930
<u>Chaetoceros affinis</u>	-	-	-	-	-	-	10
<u>C. decipiens</u>	-	-	10	-	-	-	-
<u>C. diadema</u>	50	40	-	-	-	-	10
<u>C. furcellatus</u>	10	20	-	-	-	-	-
<u>C. septentrionalis</u>	870	520	530	250	520	570	840
<u>Thalassiosira sp.</u>	-	10	-	-	-	20	-
<u>I. decipiens</u>	-	-	20	30	-	-	30
<u>I. gravida</u>	-	10	10	30	50	-	40
	-	-	-	-	10	-	-
Pennales							
<u>Cocconeis sp.</u>	90	80	90	160	90	100	320
<u>C. thumensis</u>	-	-	-	-	-	-	10
<u>Cylindrotheca closterium</u>	-	-	-	-	-	10	-
<u>Cymbella sp.</u>	-	-	-	-	10	20	50
<u>C. affinis</u>	-	-	-	-	10	10	-
<u>Fragilaria sp.</u>	-	-	-	-	-	-	10
	-	10	30	-	10	-	30

Table 19 (cont'd)

Sample	depth (m)	0	1	3	5	7	10	20
<u>F. bicapitata</u>		-	-	10	-	-	-	-
<u>F. pinnata</u>		20	30	20	-	10	20	20
<u>Gomphonema sp.</u>		-	-	-	-	-	-	10
<u>Limnophora sp.</u>		10	-	-	20	-	-	20
<u>Navicula sp.</u>		10	-	10	20	20	-	20
<u>N. debilissima</u>		-	-	-	-	-	10	-
<u>N. gastrum</u>		-	-	10	10	-	-	-
<u>N. transitans</u>		-	10	-	-	-	-	-
<u>N. valida</u>		10	-	-	-	-	-	10
<u>Nitzschia cylindrus</u>		10	-	-	100	20	-	120
<u>N. frigida</u>		-	10	-	-	-	-	-
<u>N. grunowii</u>		30	10	-	-	10	-	20
<u>Rhabdonema sp.</u>		-	-	10	-	-	-	-
<u>Synedra sp.</u>		-	-	-	-	-	10	-
<u>Tabellaria fenestrata</u>		-	10	-	10	-	-	-
<u>Thalassionema nitzschioides</u>		-	-	-	-	-	20	-
Chlorophyta								
<u>Chlamydomonas ballenyana</u>		40	10	300	160	100	40	190
<u>C. pulsatilla</u>		20	10	240	160	100	20	110
		20	-	60	-	-	20	80
Chrysophyta								
<u>Dictyocha sp.</u>		-	-	-	-	-	-	10
		-	-	-	-	-	-	10

Table 19 (cont'd)

Sample depth (m)	0	1	3	5	7	10	20
Euglenophyta							
<u>Euglena</u> sp.	-	10	-	-	40	-	20
<u>E. proxima</u>	-	-	-	-	-	-	10
<u>E. schmitzii</u>	-	-	-	-	10	-	-
	-	10	-	-	30	-	10
Pyrrophyta							
<u>Dinophysis</u> sp.	30	-	50	50	10	40	30
<u>D. arctica</u>	10	-	-	-	-	-	-
<u>Goniaulax</u> sp.	-	-	-	10	-	20	-
<u>G. monilata</u>	-	-	-	-	10	-	-
<u>Gymnodinium</u> sp.	-	-	10	-	-	-	-
<u>G. lohmanni</u>	20	-	-	20	-	-	10
<u>Peridinium</u> sp.	-	-	40	-	-	20	10
<u>P. minusculum</u>	-	-	-	10	-	-	10
	-	-	-	10	-	-	-

Table 20 Supplemental station data

Year	Station	Day	Time	Cloud (eights)	Wave Height (cm)	Ice Cover (tenths)	Wind		Secchi depth (m)	Remarks
							Bearing	Speed (km/h)		
1984										
	1	Aug 17	1430	4	10	1	W	10	-	
	1	Aug 27	1130	3	0	0	-	0	9	fog
	2	Aug 25	1650	3	10	3	SE	15	9	birds and seal seen
	6	Aug 25	1530	3	20	0	NW	25	7	9/10 ice to W
	7	Aug 23	1100	8	0	9	SE	10	6.5	water pale green colour
1985										
	2	Aug 23	1800	0	10	0	N	10	9	birds and seals seen
	2	Sept 4	1100	2	2	0	SW	5	11	
	2	Sept 21	1100	8	20	0	NW	20	6	
	2	Oct 8	0800	1	30	0	NW	30	10	bergy bit to N
	2	Oct 19	1100	7	60	0	NW	30	8	wind increased to 40
	3	Aug 24	1400	2	0	0	-	0	9	ducks & gulls seen
	4	Sept 4	1520	5	10	0	SE	10	-	wind shifted to SW 30
	4	Sept 21	0850	8	2	0	SW	20	10	many gulls to E
	4	Oct 14	0900	8	50	0	SW	30	-	bergy bit to NE
	5	Sept 4	0930	3	0	0	-	0	12	
	5	Sept 21	1520	8	10	0	NW	30	7	snow flurries
	5	Oct 10	0820	8	5	0	W	30	12	light snow
	5	Oct 29	0720	8	10	0	NW	40	7	